



DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO

GOVERNOR

MIKE D. McDANIEL, Ph.D.

SECRETARY

Certified Mail No.

Activity No.: PER19960001

Agency Interest No. 2532

David Oubre
Environmental Superintendent – LA Operations
Mosaic Fertilizer, LLC
7250 Highway 44
Uncle Sam, LA 70792

RE: Part 70 Operating Permit, Mosaic Fertilizer LLC - Uncle Sam Plant
Mosaic Fertilizer LLC, Uncle Sam, St James Parish, Louisiana

Dear Mr. Oubre:

This is to inform you that the permit for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the ___ of _____, 2011, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Done this _____ day of _____, 2006.

Permit No.: 2560-00004-V0

Sincerely,

Chuck Carr Brown Ph.D.
Assistant Secretary
CCB:KCW
c: EPA Region VI

ENVIRONMENTAL SERVICES

: PO BOX 4313, BATON ROUGE, LA 70821-4313

P:225-219-3181 F:225-219-3309

WWW.DEQ.LOUISIANA.GOV

PUBLIC NOTICE
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)
MOSAIC FERTILIZER LLC - UNCLE SAM PLANT
PROPOSED INITIAL PART 70 AIR OPERATING PERMIT

The LDEQ, Office of Environmental Services, is accepting written comments on an initial Part 70 air operating permit for Mosaic Fertilizer LLC (previously known as IMC Phosphates Company until June 29, 2005 then Mosaic Phospahtes Company until November 13, 2005), 7250 Highway 44 Uncle Sam, LA 70792 for the Uncle Sam Plant. **The facility is located at 7250 Highway 44 Uncle Sam, St James Parish.**

Mosaic Fertilizer, LLC requested an initial Part 70 air operating permit for its Uncle Sam Plant. The plant consists of three sulfuric acid units (Trains), two phosphoric acid units, a silicon tetrafluoride unit and two packaged steam boilers. It is currently operating under State Permit No. 2560-00004-01, issued June 29, 1995.

The facility recovered uranium (as uranium oxide) from phosphoric acid and utilized a calciner stack for that purpose. The Uranium recovery plant was shut down in late 1998 and has been dismantled.

As a result of the review of Mosaic's operations and the deletion of the uranium processing plant, there were changes in estimated emissions. The particulate matter emission increases include over 51 tons per year that are a reconciliation from one previously unpermitted source. The change, including emission reductions, are below the PSD significance level. No other modifications are associated with this permitting action.

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	39.85	82.72	+42.87
SO ₂	14,090.39	14,104.67	+14.28
NO _x	708.30	518.39	-189.91
CO	42.17	107.62	+65.45
VOC	5.03	14.94	+9.91

<u>LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):</u>			
<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
Ammonia	3.46	0.0	-3.46
Chlorine	0.40	<0.001	-0.40
Hydrogen Sulfide	17.75	6.39	-11.36
Hydrofluoric acid (Hydrogen Fluoride)	8.64	1.68	-6.96
Sulfuric Acid	341.21	341.29	+0.08
Phosphoric Acid	Not reported	82.38	+82.38
Sulfur Trioxide	8.04	8.05	+0.01

LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):			
Pollutant	Before	After	Change
Total Fluorides (includes HF from above)	28.06	16.24	-11.82
Total	399.52	456.03	

Written comments, written requests for a public hearing, or written requests for notification of the final decision regarding this permit action may be submitted to Ms. Soumaya Ghosn at LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. **Written comments and/or written requests must be received by 12:30 p.m., Thursday, May 4, 2006.** Written comments will be considered prior to a final permit decision.

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The permit application, proposed initial part 70 air operating permit, statement of basis and additional information dated January 11, 1999, May 19, 1999, April 10, 2002, June 7, 2002, and January 23, 2006 are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5th Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). Additional copies may be reviewed at the St. James Parish Library, Headquarters, 1879 West Main Street Lusher LA 70071.

Inquiries or requests for additional information regarding this permit action should be directed to Kermit Wittenburg, LDEQ, Air Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3110.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at maillistrequest@ldeq.org or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

Permit public notices including electronic access to the proposed permit and statement of basis can be viewed at the LDEQ permits public notice webpage at www.deq.state.la.us/news/PubNotice/ and general information related to the public participation in permitting activities can be viewed at www.deq.louisiana.gov/portal/tabid/2198/Default.aspx.

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at http://www.state.la.us/ldbc/listservpage/ldeq_pn_listserv.htm.

All correspondence should specify AI Number 2532, Permit Number 2560-00004-V0, and Activity Number PER19960001.

Publication date: March 30, 2006

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Mosaic Fertilizer LLC - Uncle Sam Plant
Agency Interest No.: 2532
Mosaic Fertilizer LLC
Uncle Sam, St James Parish, Louisiana

I. Background

Freeport Chemical Company, after purchasing the property in 1957, started constructing a large chemical complex referred to as the Uncle Sam Plant near Uncle Sam, Louisiana. The facility, which was built before 1967, produces Phosphoric and Sulfuric Acid as its main product. The facility was issued Permit No. 116 on July 13, 1972 authorizing a new No. 4 (D) Sulfuric Acid train. Permit No. 689 was issued February 15, 1977 authorizing the installation of a Uranium Recovery Plant. Permit No. 800 was issued on August 7, 1977 allowing the existing boilers to combust No. 2 fuel oil in addition to the existing permitted natural gas. Train car unloading of molten sulfur was authorized by Permit No. 1312T on December 27, 1979. Permit No. 1505 was issued on November 25, 1980 to build a 100 tons per hour (tph) Diammonium Phosphate Plant. The Diammonium Phosphate Plant was never constructed. The construction of a Silicon Tetrafluoride Production Plant was authorized by Permit No. 1928, issued April 16, 1986. Permit No. 2091, issued on August 16, 1991 authorized the construction of a new No. 5 (E) Sulfuric Acid Train. As part of the project, the "A" and "D" sulfuric acid trains increased production capacity to 2000 tpd, and dismantled trains "B" and "C" which allowed netting out of Prevention of Significant Deterioration (PSD) requirements. The facility changed to IMC-Agrico Company effective April 1, 1987. The facility was issued a consolidated state permit on June 29, 1995 under Permit No. 2560-00004-01. The facility is currently operating under an administrative amendment to Permit No. 2560-00004-01, issued on July 30, 2002 to incorporate the result of stack testing on the phosphoric acid trains.

The facility received an ownership change on June 30, 2005 from IMC Phosphates Company to Mosaic Phosphates Company, which was later changed to Mosaic Fertilizer, LLC on November 14, 2005. This is the Part 70 operating permit for the facility.

II. Origin

A permit application and Emission Inventory Questionnaire were submitted by IMC-Agrico Company on October 12, 1996 requesting a Part 70 operating permit. Additional information dated January 11, 1999, May 19, 1999, April 10, 2002, and June 7, 2002, were also received. A complete permit reconciliation application was submitted on January 23, 2006, which supersedes all previous submittals.

III. Description

Uncle Sam Plant consists of three sulfuric acid units (Trains), two phosphoric acid units, a silicon tetrafluoride unit, and two packaged steam boilers.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Mosaic Fertilizer LLC - Uncle Sam Plant
Agency Interest No.: 2532
Mosaic Fertilizer LLC
Uncle Sam, St James Parish, Louisiana

Sulfuric Acid Plant

Train "A", is a single absorption plant capable of producing more than 2,000 tons per day of sulfuric acid (as 100% H₂SO₄). Trains "D" and "E" are double absorption plants capable of producing more than 2,000 and 3,800 tons per day of sulfuric acid (as 100% H₂SO₄), respectively.

Each train manufactures sulfuric acid by the contact process. In the contact process, molten elemental sulfur is fed into a combustion chamber and burnt in clean dry air. The gases from the combustion chamber are cooled and routed to the solid catalyst converter. Sulfur dioxide formed in the combustion chamber is converted to sulfur trioxide in an exothermic reaction. After cooling, the converter exit gas enters an absorption tower where sulfur trioxide is absorbed into sulfuric acid and combined with water to form additional H₂SO₄. Sulfuric acid produced in this plant is used as raw material for the production of phosphoric acid.

Phosphoric Acid Plant

Phosphoric acid is produced in two units at the Uncle Sam Plant. The North and South Phosphate Rock Attack Systems are each capable of producing 1805 tons of phosphoric acid (as P₂O₅) per day. Both systems utilize the wet process of phosphoric acid production. Finely ground phosphate rock is decomposed in a reactor in the presence of sulfuric acid. The reaction slurry is filtered, producing a nominal 30% acid solution. This solution is concentrated to 54% through evaporation.

Hydrofluorosilicic acid is a byproduct from the phosphoric acid plant which is again reacted with sulfuric acid to produce silicon tetrafluoride gas. Fluoride emissions from this unit are diverted to the phosphoric acid plant fluoride scrubber system.

Sulfuric acid, phosphoric acid, and fluorosilicic acid are stored in fixed roof tanks, and silicon tetrafluoride is directly loaded in tank trucks for transfer.

Two 100,000 lb/hr packaged steam boilers No. 1 and No. 2, are used for supplemental steam. Natural gas is the primary fuel. No. 2 Fuel Oil was previously a backup fuel, but the boilers have been modified to remove the equipment used to supply the No. 2 Fuel Oil.

Maintenance area

The Maintenance Area includes utilities, maintenance support activities and a variety of materials handling activities. Lime is stored and used for water treatment. Utilities

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Mosaic Fertilizer LLC - Uncle Sam Plant
Agency Interest No.: 2532
Mosaic Fertilizer LLC
Uncle Sam, St James Parish, Louisiana

operations provide a number of portable diesel-fired equipment, fuel storage and emergency diesel-fired equipment for the Uncle Sam Plant operations.

The facility recovered uranium (as uranium oxide) from phosphoric acid and utilized a calciner stack for that purpose. The Uranium recovery plant was shut down in late 1998 and has been dismantled.

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	39.85	82.72	+42.87
SO ₂	14,090.39	14,104.67	+14.28
NO _x	708.30	518.39	-189.91
CO	42.17	107.62	+65.45
VOC	5.03	14.94	+9.91

LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
Ammonia	3.46	0.0	-3.46
Chlorine	0.40	<0.001	-0.40
Hydrogen Sulfide	17.75	6.39	-11.36
Hydrofluoric acid (Hydrogen Fluoride)	8.64	1.68	-6.96
Sulfuric Acid	341.21	341.29	+0.08
Phosphoric Acid	Not reported	82.38	+82.38
Sulfur Trioxide	8.04	8.05	+0.01
Total Fluorides (includes HF from above)	28.06	16.24	-11.82
Total	399.52	456.03	

IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, Prevention of Significant Deterioration (PSD) and New Source Performance Standards (NSPS). National Emission Standards for Hazardous Air Pollutants (NESHAP) does not apply.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Mosaic Fertilizer LLC - Uncle Sam Plant
Agency Interest No.: 2532
Mosaic Fertilizer LLC
Uncle Sam, St James Parish, Louisiana

This facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51. The particulate matter emission increases include over 51 tons per year that are a reconciliation from one previously unpermitted source. Therefore the changes, including emission reductions, are below the PSD significance level.

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 2006; and in the <local paper>, <local town>, on <date>, 2006. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>. The draft permit was also submitted to US EPA Region VI on <date>. All comments will be considered prior to the final permit decision.

VII. Effects on Ambient Air

Dispersion Model(s) Used: ISCSTC (screen)

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Toxic Air Pollutant Ambient Air Quality Standard or (National Ambient Air Quality Standard {NAAQS})
SO ₂	3 hour	898.00 µg/m ³	1,300.00 µg/m ³
SO ₂	24 hour	246.00 µg/m ³	365.00 µg/m ³
SO ₂	Annual	15.87 µg/m ³	80.00 µg/m ³
Sulfuric Acid	Annual	8.9 µg/m ³	23.8 µg/m ³

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Mosaic Fertilizer LLC - Uncle Sam Plant
Agency Interest No.: 2532
Mosaic Fertilizer LLC
Uncle Sam, St James Parish, Louisiana

VIII. General Condition XVII Activities

Work Activity	Schedule	PM ₁₀	Emission Rates - tons			
			SO ₂	NO _x	CO	VOC
None						

IX. Insignificant Activities

ID No.:	Description	Citation
S-IS-1	Diesel Storage Tank – Air Compressor	Insignificant Activity per LAC 33:III.501.B.5.A.3.
S-IS-2	Diesel Storage Tank – Emergency Generator	Insignificant Activity per LAC 33:III.501.B.5.A.3.
S-IS-3	Diesel Storage Tank – Seepage Pump	Insignificant Activity per LAC 33:III.501.B.5.A.3.
S-IS-4	Diesel Storage Tank – Fire Water Pump	Insignificant Activity per LAC 33:III.501.B.5.A.3.
S-IS-5	Diesel Storage Tank – James Const. Group	Insignificant Activity per LAC 33:III.501.B.5.A.3.
P-IS-1	North Polymer Tank	Insignificant Activity per LAC 33:III.501.B.5.A.10.
P-IS-2	South Polymer Tank	Insignificant Activity per LAC 33:III.501.B.5.A.10.
P-IS-3	40% Polymer Tank	Insignificant Activity per LAC 33:III.501.B.5.A.10.
P-IS-4	Evaporator Defoamer Storage Tank	Insignificant Activity per LAC 33:III.501.B.5.A.10.
P-IS-5	A & F Defoamer Tank	Insignificant Activity per LAC 33:III.501.B.5.A.10.
P-IS-6	Torpedo Heaters	Insignificant Activity per LAC 33:III.501.B.5.A.5.
M-IS-1	Laboratory Vent Hoods	Insignificant Activity per LAC 33:III.501.B.5.A.6.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Mosaic Fertilizer LLC - Uncle Sam Plant
 Agency Interest No.: 2532
 Mosaic Fertilizer LLC
 Uncle Sam, St James Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III. Chapter																		
		5 ^A	9	11	13	15	2103	2104*	2107	2111	2113	2115	22	2305	29*	51*	53	56	59	
GRP 6	Entire Facility	1	1	1	1						1							1	1	1
ARE 3	S-GypStk - Gypsum Stack Ponds																	1		
ARE 4	SLimeSilo2 - Lime Silo - Water Treatment Plant				1															
EQT 1	M-1 - Gasoline Storage Tank						1													
EQT 2	M-2 - Diesel Storage Tank																			
EQT 3	M-3 - Used Oil Storage Tank																			
EQT 4	M-4 - Portable Diesel Fired Equipment - Maintenance				1	1														
EQT 5	P-#1FSA - #1 FSA Tank																			
EQT 6	P-A&F1 - North A&F Fume Scrubber													1				1		
EQT 7	P-A&F10 - Clarified Acid Tank																	1		
EQT 8	P-A&F11 - N Flash Cooler Barometric Condenser Seal Tank																	1		
EQT 9	P-A&F12 - S Flash Cooler Barometric Condenser Seal Tank																	1		
EQT 10	P-A&F13 - North Vacuum Scrubber Seal Tank No. 1																	1		
EQT 11	P-A&F14 - North Vacuum Scrubber Seal Tank No. 2																			
EQT 12	P-A&F16 - North Gypsum Slurry Tank																			1

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Mosaic Fertilizer LLC - Uncle Sam Plant
 Agency Interest No.: 2532
 Mosaic Fertilizer LLC
 Uncle Sam, St James Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III. Chapter																		
		5 ^A	9	11	13	15	2103	2104*	2107	2111	2113	2115	22	2305	29*	51*	53	56	59	
EQT 13	P-A&F17 - South Gypsum Slurry Tank																			
EQT 14	P-A&F18 - Boilout Tank																			
EQT 15	P-A&F19 - North Primary Vacuum Pump													1						
EQT 16	P-A&F20 - South A&F Fume Scrubber													1						
EQT 17	P-A&F20 - North Secondary Vacuum Pump													1						
EQT 18	P-A&F21 - South Primary Vacuum Pump													1						
EQT 19	P-A&F22 - South Secondary Vacuum Pump													1						
EQT 20	P-A&F3 - North Filtrate Seal Tank																			
EQT 21	P-A&F4 - South Filtrate Seal Tank																			
EQT 22	P-A&F5 - 30% Acid Splitter Box																			
EQT 23	P-A&F6 - North 30% Tank																			
EQT 24	P-A&F7 - South 30% Tank																			
EQT 25	P-A&F8 - Filtrate Sump																			
EQT 26	P-A&F9 - 30% Clarifier																			
EQT 27	P-A-BLT - Barge Loading Tank A																			
EQT 28	P-A Tank - A Phosphoric Acid Storage Tank																			
EQT 29	P-A reactor - A Reactor FSA Storage Tank																			
EQT 30	P-B-BLT - Barge Loading Tank B																			

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Mosaic Fertilizer LLC - Uncle Sam Plant
 Agency Interest No.: 2532
 Mosaic Fertilizer LLC
 Uncle Sam, St James Parish, Louisiana

Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																		
		5 ^A	9	11	13	15	2103	2104*	2107	2111	2113	2115	22	2305	29*	51*	53	56	59	
EQT 31	P-BL Split - Barge Loading Tank Splitter Box																			
EQT 32	P-B Tank - B Phosphoric Acid Storage Tank																			
EQT 33	P-B reactor - B Reactor FSA Storage Tank															1				
EQT 34	P-C-Aging - C-Aging Tank FSA Storage Tank																			
EQT 35	P-C Tank - C Phosphoric Acid Storage Tank																			
EQT 36	P-Clarified - Clarified Tank FSA Storage Tank																			
EQT 37	P-D Tank - D Phosphoric Acid Storage Tank																			
EQT 38	P-E Tank - E Phosphoric Acid Storage Tank																			
EQT 39	P-EVAP1 - Evaporator Hot Well No. 1													1						1
EQT 40	P-EVAP10 - Swift Towers 4, 5 & 6 S FSA Seal Tank													3						1
EQT 41	P-EVAP11 - 03 FSA Tank																			1
EQT 42	P-EVAP2 - Evaporator Hot Well No. 2													1						1
EQT 43	P-EVAP3 - Evaporator Hot Well No. 3													1						1
EQT 44	P-EVAP4 - Evaporator Hot Well No. 4													1						1
EQT 45	P-EVAP5 - Evaporator Hot Well No. 5													1						1
EQT 46	P-EVAP6 - Evaporator Hot Well No. 6													1						1
EQT 47	P-EVAP7 - Evaporator Hot Well No. 7													1						1

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Mosaic Fertilizer LLC - Uncle Sam Plant
 Agency Interest No.: 2532
 Mosaic Fertilizer LLC
 Uncle Sam, St James Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																		
		5 ^A	9	11	13	15	2103	2104*	2107	2111	2113	2115	22	2305	29*	51*	53	56	59	
EQT 48	P-EVAP8 - Evaporator Hot Well No. 8																			
EQT 49	P-EVAP9 - Swift Towers 1, 2 & 3 N FSA Seat Tank																			
EQT 50	P-FSplit - F Tank Splitter Box																			
EQT 51	P-FTank - F Phosphoric Acid Storage Tank																			
EQT 52	P-GSplit - G Tank Splitter Box																			
EQT 53	P-Gtank - G HSA Storage Tank																			
EQT 54	P-L.TnkCAPI - Large Tanks Scrubber 1																			
EQT 55	P-L.TnkCAP2 - Large Tanks Scrubber 2																			
EQT 56	P-OCPRock - OCP Rock Transfer, Storage and Handling				1															
EQT 57	P-S&S1 - G Tank Scrubber																			
EQT 58	P-S&S2 - A&B Tank Splitter Box																			
EQT 59	P-S&S3 - C&D Tank Splitter Box																			
EQT 60	P-S&S4 - E Tank Splitter Box																			
EQT 61	P-S&S5 - Phosphoric Acid & FSA Truck Loading																			
EQT 62	P-S&S6 - Phosphoric Acid & FSA Railcar Loading																			
EQT 63	P-S&S7 - Silicon Tetrafluoride Truck Loading																			

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Mosaic Fertilizer LLC - Uncle Sam Plant
 Agency Interest No.: 2532
 Mosaic Fertilizer LLC
 Uncle Sam, St James Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																		
		5 ^A	9	11	13	15	2103	2104*	2107	2111	2113	2115	22	2305	29*	51*	53	56	59	
EQT 64	P-STnkCAP1 - Small Tanks Scrubber 1																			
EQT 65	P-STnkCAP2 - Small Tanks Scrubber 2																			
EQT 66	P-PortEquip - Portable Diesel Fired Equipment - Phos Acid				1	1														
EQT 67	S-ATrain1 - A Train Single Absorption H2SO4 Unit (Tail Gas)				3	1														1
EQT 68	S-ATrain2 - A Train Startup Burner			1	1	1														
EQT 69	S-AcidA - Sulfuric Acid Storage Tank A																			1
EQT 70	S-AcidB - Sulfuric Acid Storage Tank B																			1
EQT 71	S-AcidC - Sulfuric Acid Storage Tank C																			1
EQT 72	S-Boiler1 - No. 1 Packaged Steam Boiler			1	1	1														
EQT 73	S-Boiler2 - No. 2 Packaged Steam Boiler			1	1	1														
EQT 74	S-DTrain1 - D Train Double Absorption H2SO4 Unit (Tail Gas)				3	1														1
EQT 75	S-DTrain2 - D Train Startup Burner			1	1	1														
EQT 76	S-ETrain1 - E Train Double Absorption H2SO4 Unit (Tail Gas)				3	1														1
EQT 77	S-ETrain2 - E Train Startup Burner			1	1	1														
EQT 78	S-Railcar - Sulfur Railcar Unloading																			1
EQT 79	S-Rock - Rock Unloading, Handling, Storage and Transfer				1															

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Mosaic Fertilizer LLC - Uncle Sam Plant
 Agency Interest No.: 2532
 Mosaic Fertilizer LLC
 Uncle Sam, St James Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																		
		5 ^A	9	11	13	15	2103	2104*	2107	2111	2113	2115	22	2305	29*	51*	53	56	59	
EQT 80	S-SA Truck - Sulfuric Acid Truck Loading Area																			
EQT 81	S-SulfPit - Sulfur Unloading Pit																			1
EQT 82	S-SulfurA - Sulfur Storage Tank A																			1
EQT 83	S-SulfurB - Sulfur Storage Tank B																			1
EQT 84	S-SurgeTnk - Sulfur Surge Tank																			1
EQT 85	S-Truck - Sulfur Tank Truck Unloading																			1
EQT 86	SDEngine1 - Diesel Fired Air Compressor			1	1															
EQT 87	SDEngine2 - Diesel Fired Emergency Generator			1	1															
EQT 88	SDEngine3 - Diesel Pump on Stack - Seepage Pump			1	1															
EQT 89	SDEngine4 - Diesel Fire Water Pump			1	1															
EQT 90	SDEngine5 - Rental Hydroblaster - Diesel			1	1															
EQT 91	SLimeSilo1 - Lime Silo - Utilities			1																
FUG 1	P-A&F15 - Plantwide Fugitive Emissions																			1
FUG 2	S-ATrain3 - A Train Fugitive Emissions																			1
FUG 3	S-DTrain3 - D Train Fugitive Emissions																			1
FUG 4	S-DockFug - Dock Fugitive Emissions																			1
FUG 5	S-ETrain3 - E Train Fugitive Emissions																			1

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Mosaic Fertilizer LLC - Uncle Sam Plant

Agency Interest No.: 2532

Mosaic Fertilizer LLC

Uncle Sam, St James Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III Chapter																	
		5 [▲]	9	11	13	15	2103	2104*	2107	2111	2113	2115	22	2305	29*	51*	53	56	59
GRP 4	P-L-TnkCAP - Large Tanks CAP															1			
GRP 5	P-S-TnkCAP - Small Tanks CAP															1			
GRP 7	North Phosphoric Acid Train												1						
GRP 8	South Phosphoric Acid Train												1						

* The regulations indicated above are State Only regulations.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

KEY TO MATRIX

- 1 -The regulations have applicable requirements that apply to this particular emission source.
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Mosaic Fertilizer LLC - Uncle Sam Plant
 Agency Interest No.: 2532
 Mosaic Fertilizer LLC
 Uncle Sam, St James Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS							40 CFR 61				40 CFR 63 NESHAP				40 CFR				
		K	Ka	Kb	Dc	H	T	A	M	R	A	AA	BB	VV	HHH	64	68	82			
EQT 14	P-A&F18 - Boilout Tank																				
EQT 15	P-A&F19 - North Primary Vacuum Pump																				
EQT 16	P-A&F2 - South A&F Fume Scrubber						3														
EQT 17	P-A&F20 - North Secondary Vacuum Pump																				
EQT 18	P-A&F21 - South Primary Vacuum Pump																				
EQT 19	P-A&F22 - South Secondary Vacuum Pump																				
EQT 20	P-A&F3 - North Filtrate Seal Tank																				
EQT 21	P-A&F4 - South Filtrate Seal Tank																				
EQT 22	P-A&F5 - 30% Acid Splitter Box																				
EQT 23	P-A&F6 - North 30% Tank																				
EQT 24	P-A&F7 - South 30% Tank																				
EQT 25	P-A&F8 - Filtrate Sump																				
EQT 26	P-A&F9 - 30% Clarifier																				
EQT 27	P-A-BLT - Barge Loading Tank A																				
EQT 28	P-A Tank - A Phosphoric Acid Storage Tank																				
EQT 29	P-A reactor - A Reactor FSA Storage Tank																				
EQT 30	P-B-BLT - Barge Loading Tank B																				
EQT 31	P-BLSplit - Barge Loading Tank Splitter Box																				

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Mosaic Fertilizer LLC - Uncle Sam Plant
 Agency Interest No.: 2532
 Mosaic Fertilizer LLC
 Uncle Sam, St James Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS							40 CFR 61				40 CFR 63 NESHAP				40 CFR		
		K	Ka	Kb	Dc	H	T	A	M	R	A	AA	BB	VV	HHH	64	68	82	
EQT 65	P-STnkCAP2 - Small Tanks Scrubber 2																		
EQT 66	PPortEquip - Portable Diesel Fired Equipment - Phos Acid																		
EQT 67	S-ATrain1 - A Train Single Absorption H2SO4 Unit (Tail Gas)					3													
EQT 68	S-ATrain2 - A Train Startup Burner																		
EQT 69	S-AcidA - Sulfuric Acid Storage Tank A																		
EQT 70	S-AcidB - Sulfuric Acid Storage Tank B																		
EQT 71	S-AcidC - Sulfuric Acid Storage Tank C																		
EQT 72	S-Boiler1 - No. 1 Packaged Steam Boiler					3													
EQT 73	S-Boiler2 - No. 2 Packaged Steam Boiler					3													
EQT 74	S-DTrain1 - D Train Double Absorption H2SO4 Unit (Tail Gas)																		
EQT 75	S-DTrain2 - D Train Startup Burner																		
EQT 76	S-ETrain1 - E Train Double Absorption H2SO4 Unit (Tail Gas)																		
EQT 77	S-ETrain2 - E Train Startup Burner																		
EQT 78	S-Railcar - Sulfur Railcar Unloading																		
EQT 79	S-Rock - Rock Unloading, Handling, Storage and Transfer																		
EQT 80	S-SATruck - Sulfuric Acid Truck Loading Area																		

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Mosaic Fertilizer LLC - Uncle Sam Plant
 Agency Interest No.: 2532
 Mosaic Fertilizer LLC
 Uncle Sam, St James Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS							40 CFR 61				40 CFR 63 NESHAP				40 CFR			
		K	Ka	Kb	Db	Dc	H	T	A	M	R	A	AA	BB	VV	HHH	64	68	82	
EQT 81	S-SulfurPit - Sulfur Unloading Pit																			
EQT 82	S-SulfurA - Sulfur Storage Tank A																			
EQT 83	S-SulfurB - Sulfur Storage Tank B																			
EQT 84	S-SurgeTnk - Sulfur Surge Tank																			
EQT 85	S-Truck - Sulfur Tank Truck Unloading																			
EQT 86	SDEngine1 - Diesel Fired Air Compressor																			
EQT 87	SDEngine2 - Diesel Fired Emergency Generator																			
EQT 88	SDEngine3 - Diesel Pump on Stack - Seepage Pump																			
EQT 89	SDEngine4 - Diesel Fire Water Pump																			
EQT 90	SDEngine5 - Rental Hydroblaster - Diesel																			
EQT 91	SLimeSilo1 - Lime Silo - Utilities																			
FUG 1	P-A&F15 - Plantwide Fugitive Emissions																			
FUG 2	S-ATrain3 - A Train Fugitive Emissions																			
FUG 3	S-DTrain3 - D Train Fugitive Emissions																			
FUG 4	S-DockFug - Dock Fugitive Emissions																			
FUG 5	S-ETrain3 - E Train Fugitive Emissions																			
GRP 4	P-LTnkCAP - Large Tanks CAP																			

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Mosaic Fertilizer LLC - Uncle Sam Plant
 Agency Interest No.: 2532
 Mosaic Fertilizer LLC
 Uncle Sam, St James Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS							40 CFR 61			40 CFR 63 NESHAP			40 CFR				
		K	Ka	Kb	Dc	H	T	A	M	R	A	AA	BB	VV	HHH	64	68	82	
GRP 5	P-STnkCAP - Small Tanks CAP																		
GRP 7	North Phosphoric Acid Train						3												
GRP 8	South Phosphoric Acid Train						3												

KEY TO MATRIX

- 1 - The regulations have applicable requirements that apply to this particular emission source.
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank - The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Mosaic Fertilizer LLC - Uncle Sam Plant
 Agency Interest No.: 2532
 Mosaic Fertilizer LLC
 Uncle Sam, St James Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
GRP 6 Entire Facility	Compliance Assurance Monitoring (CAM) [40 CFR 64]	EXEMPT. 40 CFR 64.5 Deadlines for Submittals allows the facility to submit the CAM plan at the first renewal of the Part 70 Operating permit. Therefore, the facility does not need to comply with the CAM regulations until the first renewal
GRP 6 Entire Facility ARE 3 S-GypStk - Gypsum Stack Ponds	NESHAPS Subpart M-National Emission Standard for Asbestos [40 CFR 61.145] Emission Standards for Asbestos [LAC 33:III.5151] NESHAPS Subpart R-National Emission Standard for Radon Emissions from Phosphogypsum Stacks [40 CFR 61.202]	EXEMPT. Shall comply with the regulations under this Subpart if triggered. Applies to owner or operator of a facility being demolished or renovated. EXEMPT. The facility does not need to test for compliance until the stack becomes inactive. For the purposes of this permit, the stack (which currently consists of both active and inactive portions) will become inactive when the entire stack is no longer used for water management as defined in the water Permit No. LA0004847.
EQT 4, 66, 68, 72, 73, 75, 77, & 86 - 90	Emission Standards for Sulfur Dioxide Continuous Emissions Monitoring [LAC 33:III.1511.A] Emission Standards for Sulfur Dioxide Recordkeeping and Reporting [LAC 33:III.1513]	EXEMPT. Units emit less than 250 tons of SO ₂ per year. Record and retain at the site for at least 2 years the data required to demonstrate compliance with or exemption from SO ₂ standards of Chapter 15. Compliance data shall be reported annually in accordance with LAC 33:III.918.
EQT 06, 16 P-A&F1 & 2 - N. & S. A&F Fume Scrubbers EQT 39, 42 - 48 Evaporator Hotwells GRP 7 & 8 Phosphoric Acid Trains	NSPS Subpart T - Standards of Performance for the Phosphate Fertilizer Industry: Wet-Process Phosphoric Acid Plants [40 CFR 60.200(b)]	DOES NOT APPLY. Facilities were built before October 22, 1974 and have not been modified in accordance with the definition of modification in 40 CFR 60.2
EQT 67 S-A Train1 - A Train Single Absorption H2SO4 Unit (Tail Gas)	NSPS Subpart H - Standards of Performance for Sulfuric Acid Plants [40 CFR 60.80(b)]	DOES NOT APPLY. Facility was built before August 17, 1971 and has not been modified in accordance with the definition of modification in 40 CFR 60.2

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Mosaic Fertilizer LLC - Uncle Sam Plant
 Agency Interest No.: 2532
 Mosaic Fertilizer LLC
 Uncle Sam, St James Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT 06, 16 P-A&F1 & 2 -A&F Fume Scrubbers EQT 39, 42 - 48 Evaporator Hotwells EQT 40 P-EVAP10 - Swift Towers 4, 5 & 6 S FSA Seal Tank GRP 7 & 8 Phosphoric Acid Trains	National Emission Standards for Hazardous Air Pollutants from Phosphoric Acid Manufacturing Plants [40 CFR 63, Subpart AA]	DOES NOT APPLY. Facility emits less than 10 tons per year of hydrofluoric acid and is thus not a major source.
EQT 40 P-EVAP10 - Swift Towers 4, 5 & 6 S FSA Seal Tank	NSPS Subpart T - Standards of Performance for the Phosphate Fertilizer Industry: Wet-Process Phosphoric Acid Plants [40 CFR 60.200(b)] NSPS Subpart U - Standards of Performance for the Phosphate Fertilizer Industry: Superphosphoric Acid Plants [40 CFR 60.210(b)] Chapter 23. Control of Emissions for Specific Industries - Subchapter C Phosphate Fertilizer Plants [LAC 33:III.2305.D.1 or 2]	DOES NOT APPLY. Fluorosilicic Acid Facility was built before October 22, 1974 and has not been modified in accordance with the definition of modification in 40 CFR 60.2 The process does not meet the definition of a Wet-process phosphoric acid plant or the definition of a Superphosphoric acid plant per 40 CFR 60.201(a), or 40 CFR 60.211(a), or 40 CFR 63.601. DOES NOT APPLY. Facility was built before August 6, 1975, however, the process does not meet the definition of a Wet-process phosphoric acid plant or the definition of a Superphosphoric acid plant per 40 CFR 60.201(a) or 40 CFR 60.211(a)
ARE 3, EQT 6 - 10, 12 - 26, 33, 39 - 49, 54 - 55, 57 - 62, 64 - 65, 67, 69 - 71, 74, 76, 78, 80 - 85, FUG 1 - 5 and GRP 4 - 5	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III. Chapter 51]	EXEMPT. All associated equipment emit pollutants, which are Class III TAPs. These pollutants are not subject to MACT control per LAC 33:III.5109.A Emissions must be included in the annual TEDI submittal required per LAC 33:III.5107.A.2

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Mosaic Fertilizer LLC - Uncle Sam Plant
 Agency Interest No.: 2532
 Mosaic Fertilizer LLC
 Uncle Sam, St James Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT 72 & 73 S-Boiler1 & 2 - No. 1 & 2 Packaged Steam Boilers	Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60, Subpart Dc]	DOES NOT APPLY. Facilities were built before 1969 and have not been modified in accordance with the definition of modification in 40 CFR 60.2
EQT 39, 42 - 48 Evaporator Hotwells	Chapter 23. Control of Emissions for Specific Industries - Subchapter C Phosphate Fertilizer Plants [LAC 33:III.2305.E]	EXEMPT. The Hotwells meet the definition of an affected facility within a wet-process phosphoric acid plant. The emissions from these sources must therefore be summed with all other affected facilities to determine compliance with the emission limitation. However, due to the unique barometric condenser physical construction, only negligible emissions are not condensed. Therefore, these sources shall not be required to perform test methods and procedures in accordance with LAC 33:III.2305.E.
EQT 67 S-A Train1 - A Train Single Absorption H2SO4 Unit (Tail Gas) EQT 74 & 76 S-D&E Train1 - D & E Train Double Absorption H2SO4 Units (Tail Gas)	Fuel Burning Equipment [LAC 33:III.1313.C]	DOES NOT APPLY. During normal operations the Sulfuric Acid Trains are not subject to LAC 33:III.1313.C as products of combustion do have direct contact with the process materials.

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

40 CFR PART 70 GENERAL CONDITIONS

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]
- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];

40 CFR PART 70 GENERAL CONDITIONS

2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
 3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and
 4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
1. the date, place as defined in the permit, and time of sampling or measurements;
 2. the date(s) analyses were performed;
 3. the company or entity that performed the analyses;
 4. the analytical techniques or methods used;
 5. the results of such analyses; and
 6. the operating conditions as existing at the time of sampling or measurement.
[Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]
- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of

40 CFR PART 70 GENERAL CONDITIONS

attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]

- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]
- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
 2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
 3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
 4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;

40 CFR PART 70 GENERAL CONDITIONS

5. changes in emissions would not qualify as a significant modification; and
 6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]
- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Surveillance Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
 3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
 - a. Report by June 30 to cover January through March
 - b. Report by September 30 to cover April through June
 - c. Report by December 31 to cover July through September
 - d. Report by March 31 to cover October through December
 4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]
- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]

40 CFR PART 70 GENERAL CONDITIONS

- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
 2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
 3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
 4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
 5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
 6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]
- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]

- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire submitted by IMC-Agrico Company on October 12, 1996. Additional information dated January 11, 1999, May 19, 1999, April 10, 2002, and June 7, 2002, were also received. A complete permit reconciliation application was submitted on January 23, 2006, which supersedes all previous submittals.
- IV. This permit shall become invalid, for the sources not constructed, if:
- A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
 - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.

The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.

This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.

- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.
- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.

- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Surveillance Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Surveillance Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
- B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
- C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
1. Report by June 30 to cover January through March
 2. Report by September 30 to cover April through June

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

3. Report by December 31 to cover July through September
 4. Report by March 31 to cover October through December
- D. Each report submitted in accordance with this condition shall contain the following information:
1. Description of noncomplying emission(s);
 2. Cause of noncompliance;
 3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
 4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
 5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
 - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
 - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
 - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.

- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
 2. Be less than the minimum emission rate (MER)
 3. Be scheduled daily, weekly, monthly, etc., or
 4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division
La. Dept. of Environmental Quality
Post Office Box 4302
Baton Rouge, Louisiana 70821-4302

- XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

**Mosaic Fertilizer, LLC
 Uncle Sam Plant
 Uncle Sam, St. James Parish, Louisiana
 Agency Interest Number: 2425
 Activity Number: PER19960001
 Proposed Permit Number: 2560-00021-V0**

LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

Pollutant	Before	After	Change
Sulfur Trioxide	8.04	8.05	+0.01
Total Fluorides (includes HF from above)	28.06	16.24	-11.82
Total	399.52	456.03	

IV REGULATORY ANALYSIS

Louisiana Air Quality Regulations and NSPS

The applicability of the appropriate regulations is straightforward and provided in the Facility Specific Requirements Section of the draft permit, or Table 2 of the draft Air Permit Briefing Sheet. Similarly, the Monitoring, Reporting and Recordkeeping necessary to demonstrate compliance with the applicable terms, conditions and standards are provided in the Facility Specific Requirements Section of the draft permit, or explained in Table 2 of the draft Air Permit Briefing Sheet.

Currently New Source Performance Standards (NSPS), 40 CFR 60 Subpart H is not applicable to the "A" sulfuric acid production line and does not apply to ancillary units such as storage tanks. The facility was built prior to the NSPS applicability date of August 17, 1971. The "D" and "E" sulfuric acid trains are subject to the NSPS.

Currently New Source Performance Standards (NSPS), 40 CFR 60 Subpart T is not applicable to the phosphoric acid production lines and does not apply to ancillary units such as storage tanks. The facilities were built prior to the NSPS applicability date of October 22, 1974. The phosphoric acid trains are subject to the LAC 33:III.2305.D.1 emission limitation of 0.10 lbs total fluoride per ton of equivalent P₂O₅ feed.

Prevention of Significant Deterioration/Nonattainment Review

The particulate matter emission increases include over 51 tons per year that are a reconciliation from one previously unpermitted source. Therefore the changes, including emission reductions, are below the PSD significance level.

Streamlined Equipment Leak Monitoring Program

The facility has no programs being streamlined.

MACT and NESHAP Requirements

This facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51. All pollutants are Class III TAPs only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report. (TEDI)

INVENTORIES

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant
Activity Number: PER19960001
Permit Number: 2560-00004-V0
Air - Title V Regular Permit Initial

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
ARE003	S-GypSlk - Gypsum Stack Ponds					8760 hr/yr (All Year)
ARE004	SLimeSilo2 - Lime Silo - Water Treatment Plant					1304 hr/yr (All Year)
EQT001	M-1 - Gasoline Storage Tank	1000 gallons	40000 gallons/yr	20000 tons/yr	Gasoline	8760 hr/yr (All Year)
EQT002	M-2 - Diesel Storage Tank	10000 gallons	200000 gallons/yr	200000 gallons/yr	Diesel	8760 hr/yr (All Year)
EQT003	M-3 - Used Oil Storage Tank	2115 gallons	6000 gallons/yr	6000 gallons/yr	Used Oil	8760 hr/yr (All Year)
EQT004	M-4 - Portable Diesel Fired Equipment - Maintenance		987840 horsepower	987840 horsepower	Horsepower Hours	8760 hr/yr (All Year)
EQT005	P-#1FSA - #1 FSA Tank	170000 gallons	13.3 MM gallons/yr	13.3 MM gallons/yr	Fluorosilicic acid	8760 hr/yr (All Year)
EQT006	P-A&F1 - North A&F Fume Scrubber		659007.5 tons/yr	1805.5 tons/day	expressed as 100% Sulfuric Acid	8760 hr/yr (All Year)
EQT007	P-A&F10 - Clarified Acid Tank	56000 gallons	780.27 MM gallons/yr	780.27 MM gallons/yr	30% Phosphoric Acid	8760 hr/yr (All Year)
EQT008	P-A&F11 - N Flash Cooler Barometric Condenser Seal Tank	2450 gallons				8760 hr/yr (All Year)
EQT009	P-A&F12 - S Flash Cooler Barometric Condenser Seal Tank	2450 gallons				8760 hr/yr (All Year)
EQT010	P-A&F13 - North Vacuum Scrubber Seal Tank No. 1	290 gallons				8760 hr/yr (All Year)
EQT011	P-A&F14 - North Vacuum Scrubber Seal Tank No. 2	290 gallons				8760 hr/yr (All Year)
EQT012	P-A&F16 - North Gypsum Slurry Tank	18000 gallons	1800 gallons/min	1800 gallons/min	Active Pond Water	8760 hr/yr (All Year)
EQT013	P-A&F17 - South Gypsum Slurry Tank	18000 gallons	1800 gallons/min	1800 gallons/min	Active Pond Water	8760 hr/yr (All Year)
EQT014	P-A&F18 - Boilout Tank	56700 gallons	54996 gallons/yr	54996 gallons/yr	10% Sulfuric Acid Solution	8760 hr/yr (All Year)
EQT015	P-A&F19 - North Primary Vacuum Pump					8760 hr/yr (All Year)
EQT016	P-A&F2 - South A&F Fume Scrubber		659007.5 tons/yr	1805.5 tons/day	expressed as 100% Sulfuric Acid	8760 hr/yr (All Year)
EQT017	P-A&F20 - North Secondary Vacuum Pump					8760 hr/yr (All Year)
EQT018	P-A&F21 - South Primary Vacuum Pump					8760 hr/yr (All Year)
EQT019	P-A&F22 - South Secondary Vacuum Pump					8760 hr/yr (All Year)
EQT020	P-A&F3 - North Filtrate Seal Tank	18200 gallons	390.14 MM gallons/yr	390.14 MM gallons/yr	30% Phosphoric Acid	8760 hr/yr (All Year)
EQT021	P-A&F4 - South Filtrate Seal Tank	18200 gallons	390.14 MM gallons/yr	390.14 MM gallons/yr	30% Phosphoric Acid	8760 hr/yr (All Year)
EQT022	P-A&F5 - 30% Acid Splitter Box		780.27 MM gallons/yr	780.27 MM gallons/yr	30% Phosphoric Acid	8760 hr/yr (All Year)
EQT023	P-A&F6 - North 30% Tank	570000 gallons	390.14 MM gallons/yr	390.14 MM gallons/yr	30% Phosphoric Acid	8760 hr/yr (All Year)
EQT024	P-A&F7 - South 30% Tank	570000 gallons	390.14 MM gallons/yr	390.14 MM gallons/yr	30% Phosphoric Acid	8760 hr/yr (All Year)
EQT025	P-A&F8 - Filtrate Sump	4700 gallons			10% H2SO4, 10% H3PO4, 5% active Pond Water	8760 hr/yr (All Year)
EQT026	P-A&F9 - 30% Clarifier	500000 gallons	780.27 MM gallons/yr	780.27 MM gallons/yr	30% Phosphoric Acid	8760 hr/yr (All Year)
EQT027	P-A-BLT - Barge Loading Tank A	169000 gallons	174.9 MM gallons/yr	174.9 MM gallons/yr	54% Phosphoric Acid	8760 hr/yr (All Year)
EQT028	P-A-Tank - A Phosphoric Acid Storage Tank	1.2 million gallons	174.9 MM gallons/yr	174.9 MM gallons/yr	54% Phosphoric Acid	8760 hr/yr (All Year)
EQT029	P-A-reactor - A Reactor FSA Storage Tank	120000 gallons	6.9 MM gallons/yr	6.9 MM gallons/yr	Fluorosilicic acid	8760 hr/yr (All Year)
EQT030	P-B-BLT - Barge Loading Tank B	169000 gallons	174.9 MM gallons/yr	174.9 MM gallons/yr	54% Phosphoric Acid	8760 hr/yr (All Year)
EQT031	P-BL Split - Barge Loading Tank Splitter Box		174.9 MM gallons/yr	174.9 MM gallons/yr	54% Phosphoric Acid	8760 hr/yr (All Year)
EQT032	P-B-Tank - B Phosphoric Acid Storage Tank	1.2 million gallons	262.4 MM gallons/yr	262.4 MM gallons/yr	54% Phosphoric Acid	8760 hr/yr (All Year)
EQT033	P-B-reactor - B Reactor FSA Storage Tank	120000 gallons	6.9 MM gallons/yr	6.9 MM gallons/yr	Fluorosilicic acid	8760 hr/yr (All Year)
EQT034	P-C-Aging - C-Aging Tank FSA Storage Tank	120000 gallons	6.9 MM gallons/yr	6.9 MM gallons/yr	Fluorosilicic acid	8760 hr/yr (All Year)

INVENTORIES

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant
Activity Number: PER19960001
Permit Number: 2560-00004-V0
Air - Title V Regular Permit Initial

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT035	P-CTank - C Phosphoric Acid Storage Tank	1.2 million gallons	349.9 MM gallons/yr	349.9 MM gallons/yr	54% Phosphoric Acid	8760 hr/yr (All Year)
EQT036	P-Clarified - Clarified Tank FSA Storage Tank	107000 gallons	6.9 MM gallons/yr	6.9 MM gallons/yr	Fluorosilicic acid	8760 hr/yr (All Year)
EQT037	P-DT tank - D Phosphoric Acid Storage Tank	1.2 million gallons	87.5 MM gallons/yr	87.5 MM gallons/yr	54% Phosphoric Acid	8760 hr/yr (All Year)
EQT038	P-ETank - E Phosphoric Acid Storage Tank	1.2 million gallons	303.9 MM gallons/yr	303.9 MM gallons/yr	30% Phosphoric Acid	8760 hr/yr (All Year)
EQT039	P-EVAP1 - Evaporator Hot Well No. 1	1480 gallons				8760 hr/yr (All Year)
EQT040	P-EVAP10 - Swift Towers 4, 5 & 6 S FSA Seal Tank	12740 gallons	4.43 MM gallons/yr	4.43 MM gallons/yr	Fluorosilicic acid	8760 hr/yr (All Year)
EQT041	P-EVAP11 - 03 FSA Tank	30500 gallons	1.77 MM gallons/yr	1.77 MM gallons/yr	Fluorosilicic acid	8760 hr/yr (All Year)
EQT042	P-EVAP2 - Evaporator Hot Well No. 2	1480 gallons				8760 hr/yr (All Year)
EQT043	P-EVAP3 - Evaporator Hot Well No. 3	1480 gallons				8760 hr/yr (All Year)
EQT044	P-EVAP4 - Evaporator Hot Well No. 4	1480 gallons				8760 hr/yr (All Year)
EQT045	P-EVAP5 - Evaporator Hot Well No. 5	1480 gallons				8760 hr/yr (All Year)
EQT046	P-EVAP6 - Evaporator Hot Well No. 6	1480 gallons				8760 hr/yr (All Year)
EQT047	P-EVAP7 - Evaporator Hot Well No. 7	1480 gallons				8760 hr/yr (All Year)
EQT048	P-EVAP8 - Evaporator Hot Well No. 8	1480 gallons				8760 hr/yr (All Year)
EQT049	P-EVAP9 - Swift Towers 1, 2 & 3 N FSA Seal Tank	4400 gallons	15.77 MM gallons/yr	15.77 MM gallons/yr	Fluorosilicic acid	8760 hr/yr (All Year)
EQT050	P-FSPplit - F Tank Splitter Box		780.3 MM gallons/yr	780.3 MM gallons/yr	30 % Phosphoric Acid	8760 hr/yr (All Year)
EQT051	P-FTank - F Phosphoric Acid Storage Tank	1.2 million gallons	780.3 MM gallons/yr	780.3 MM gallons/yr	30% Phosphoric Acid	8760 hr/yr (All Year)
EQT052	P-GSPplit - G Tank Splitter Box		262.4 MM gallons/yr	262.4 MM gallons/yr	54% Phosphoric Acid	8760 hr/yr (All Year)
EQT053	P-GIank - G HSA Storage Tank	1.2 million gallons	35 MM gallons/yr	35 MM gallons/yr	Fluorosilicic acid	8760 hr/yr (All Year)
EQT054	P-LTnkCAP1 - Large Tanks Scrubber 1		800 ft ³ /min	800 ft ³ /min	Scrubbing liquid	8760 hr/yr (All Year)
EQT055	P-LTnkCAP2 - Large Tanks Scrubber 2		800 ft ³ /min	800 ft ³ /min	Scrubbing liquid	8760 hr/yr (All Year)
EQT056	P-OCPRock - OCP Rock Transfer, Storage and Handling		4.45 MM tons/yr	12204 tons/day	Phosphate rock	8760 hr/yr (All Year)
EQT057	P-S&S1 - G Tank Scrubber		800 ft ³ /min	800 ft ³ /min	Scrubbing liquid	8760 hr/yr (All Year)
EQT058	P-S&S2 - A&B Tank Splitter Box		262.4 MM gallons/yr	262.4 MM gallons/yr	54% Phosphoric acid	8760 hr/yr (All Year)
EQT059	P-S&S3 - C&D Tank Splitter Box		87.5 MM gallons/yr	87.5 MM gallons/yr	54% Phosphoric acid	8760 hr/yr (All Year)
EQT060	P-S&S4 - E Tank Splitter Box		585.2 MM gallons/yr	585.2 MM gallons/yr	30% Phosphoric acid	8760 hr/yr (All Year)
EQT061	P-S&S5 - Phosphoric Acid & FSA Truck Loading		36.14 MM gallons/yr	36.14 MM gallons/yr	Phosphoric & Fluorosilicic acid	3285 hr/yr (All Year)
EQT062	P-S&S6 - Phosphoric Acid & FSA Railcar Loading		34.42 MM gallons/yr	3395 Tank cars/year	Phosphoric & Fluorosilicic acid	7265 hr/yr (All Year)
EQT063	P-S&S7 - Silicon Tetrafluoride Truck Loading			1.77 Trucks/day	Silicon Tetrafluoride, 645 trucks per year	8760 hr/yr (All Year)
EQT064	P-STnkCAP1 - Small Tanks Scrubber 1		800 ft ³ /min	800 ft ³ /min	Scrubbing liquid	8760 hr/yr (All Year)
EQT065	P-STnkCAP2 - Small Tanks Scrubber 2		800 ft ³ /min	800 ft ³ /min	Scrubbing liquid	8760 hr/yr (All Year)
EQT066	PPortEquip - Portable Diesel Fired Equipment - Phos Acid		6.14 horsepower	6.14 horsepower	Million diesel fired horsepower hours	8760 hr/yr (All Year)
EQT067	S-ATrain1 - A Train Single Absorption H2SO4 Unit (Tail Gas)		730000 tons/yr	2000 tons/day	Sulfuric Acid	8760 hr/yr (All Year)
EQT068	S-ATrain2 - A Train Startup Burner		843 MM ft ³ /yr	100 MM BTU/hr	Natural Gas	105 hr/yr (All Year)
EQT069	S-AcidA - Sulfuric Acid Storage Tank A	1.5 million gallons	107.02 MM gallons/yr	107.02 MM gallons/yr	98% Sulfuric Acid	8760 hr/yr (All Year)

INVENTORIES

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant
 Activity Number: PER19960001
 Permit Number: 2560-00004-V0
 Air - Title V Regular Permit Initial

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT070	S-AcidB - Sulfuric Acid Storage Tank B	1.5 million gallons	107.02 MM gallons/yr	107.02 MM gallons/yr	98% Sulfuric Acid	8760 hr/yr (All Year)
EQT071	S-AcidC - Sulfuric Acid Storage Tank C	1.5 million gallons	107.02 MM gallons/yr	107.02 MM gallons/yr	98% Sulfuric Acid	8760 hr/yr (All Year)
EQT072	S-Boiler1 - No. 1 Packaged Steam Boiler		160 MM BTU/hr	116 MM BTU/hr	Natural Gas	8760 hr/yr (All Year)
EQT073	S-Boiler2 - No. 2 Packaged Steam Boiler		160 MM BTU/hr	116 MM BTU/hr	Natural Gas	8760 hr/yr (All Year)
EQT074	S-DTrain1 - D Train Double Absorption H2SO4 Unit (Tail Gas)		730000 tons/yr	2000 tons/day	Sulfuric Acid	8760 hr/yr (All Year)
EQT075	S-DTrain2 - D Train Startup Burner		843 MM ft ³ /yr	100 MM BTU/hr	Natural gas	105 hr/yr (All Year)
EQT076	S-ETrain1 - E Train Double Absorption H2SO4 Unit (Tail Gas)		1,39 tons/yr	3800 tons/day	Sulfuric Acid	8760 hr/yr (All Year)
EQT077	S-ETrain2 - E Train Startup Burner		1756 MM ft ³ /yr	100 MM BTU/hr	Natural gas	140 hr/yr (All Year)
EQT078	S-Railcar - Sulfur Railcar Unloading		44667 long tons/yr	44667 long tons/yr	Recovered Molten Sulfur	3000 hr/yr (All Year)
EQT079	S-Rock - Rock Unloading, Handling, Storage and Transfer		4.8 MM tons/yr	4.8 MM tons/yr	Phosphate rock	8760 hr/yr (All Year)
EQT080	S-SATruck - Sulfuric Acid Truck Loading Area		30.66 MM gallons/yr	24 Trucks/day	98% Sulfuric Acid	2920 hr/yr (All Year)
EQT081	S-SulfurPit - Sulfur Unloading Pit		586399 long tons/yr	586399 long tons/yr	Recovered molten sulfur	8760 hr/yr (All Year)
EQT082	S-SulfurA - Sulfur Storage Tank A		157767 long tons/yr	157767 long tons/yr	Recovered Molten Sulfur	8760 hr/yr (All Year)
EQT083	S-SulfurB - Sulfur Storage Tank B		473300 long tons/yr	473300 long tons/yr	Recovered Molten Sulfur	8760 hr/yr (All Year)
EQT084	S-SurgeTnk - Sulfur Surge Tank		44667 long tons/yr	44667 long tons/yr	Recovered Molten Sulfur	8760 hr/yr (All Year)
EQT085	S-Truck - Sulfur Tank Truck Unloading		586399 long tons/yr	586399 long tons/yr	Recovered molten sulfur	4800 hr/yr (All Year)
EQT086	SDEngine1 - Diesel Fired Air Compressor		300 horsepower	300 horsepower	Diesel fired	8760 hr/yr (All Year)
EQT087	SDEngine2 - Diesel Fired Emergency Generator		200 horsepower	200 horsepower	Diesel fired	8760 hr/yr (All Year)
EQT088	SDEngine3 - Diesel Pump on Stack - Seepage Pump		190 horsepower	190 horsepower	Diesel fired	720 hr/yr (All Year)
EQT089	SDEngine4 - Diesel Fire Water Pump		150 horsepower	150 horsepower	Diesel fired	200 hr/yr (All Year)
EQT090	SDEngine5 - Rental Hydroblaster - Diesel		260 horsepower	260 horsepower	Diesel fired	350 hr/yr (All Year)
EQT091	SLimeSilo1 - Lime Silo - Utilities		400 tons/yr	400 tons/yr	Lime at 23 tons per truck	26 hr/yr (All Year)
FUG001	P-A&F15 - Plantwide Fugitive Emissions					8760 hr/yr (All Year)
FUG002	S-ATrain3 - A Train Fugitive Emissions					8760 hr/yr (All Year)
FUG003	S-DTrain3 - D Train Fugitive Emissions					8760 hr/yr (All Year)
FUG004	S-DockFug - Dock Fugitive Emissions					(None Specified)
FUG005	S-ETrain3 - E Train Fugitive Emissions					8760 hr/yr (All Year)

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP004	P-LTnkCAP - Large Tanks CAP	EQT28 P-ATank - A Phosphoric Acid Storage Tank
GRP004	P-LTnkCAP - Large Tanks CAP	EQT32 P-BTank - B Phosphoric Acid Storage Tank
GRP004	P-LTnkCAP - Large Tanks CAP	EQT35 P-CTank - C Phosphoric Acid Storage Tank
GRP004	P-LTnkCAP - Large Tanks CAP	EQT37 P-DTank - D Phosphoric Acid Storage Tank
GRP004	P-LTnkCAP - Large Tanks CAP	EQT38 P-ETank - E Phosphoric Acid Storage Tank
GRP004	P-LTnkCAP - Large Tanks CAP	EQT50 P-FSplit - F Tank Splitter Box

INVENTORIES

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant
 Activity Number: PER19960001
 Permit Number: 2560-00004-V0
 Air - Title V Regular Permit Initial

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP004	P-LTnkCAP - Large Tanks CAP	EQT51 P-F Tank - F Phosphoric Acid Storage Tank
GRP004	P-LTnkCAP - Large Tanks CAP	EQT54 P-LTnkCAP1 - Large Tanks Scrubber 1
GRP004	P-LTnkCAP - Large Tanks CAP	EQT55 P-LTnkCAP2 - Large Tanks Scrubber 2
GRP005	P-STnkCAP - Small Tanks CAP	EQT5 P-#1FSA - #1 FSA Tank
GRP005	P-STnkCAP - Small Tanks CAP	EQT27 P-A-BLT - Barge Loading Tank A
GRP005	P-STnkCAP - Small Tanks CAP	EQT29 P-Areactor - A Reactor FSA Storage Tank
GRP005	P-STnkCAP - Small Tanks CAP	EQT30 P-B-BLT - Barge Loading Tank B
GRP005	P-STnkCAP - Small Tanks CAP	EQT31 P-BLSplit - Barge Loading Tank Splitter Box
GRP005	P-STnkCAP - Small Tanks CAP	EQT33 P-Breactor - B Reactor FSA Storage Tank
GRP005	P-STnkCAP - Small Tanks CAP	EQT34 P-C-Aging - C-Aging Tank FSA Storage Tank
GRP005	P-STnkCAP - Small Tanks CAP	EQT36 P-Clearified - Clarified Tank FSA Storage Tank
GRP005	P-STnkCAP - Small Tanks CAP	EQT64 P-STnkCAP1 - Small Tanks Scrubber 1
GRP005	P-STnkCAP - Small Tanks CAP	EQT65 P-STnkCAP2 - Small Tanks Scrubber 2
GRP006	Entire Facility	ARE3 S-GypSik - Gypsum Stack Ponds
GRP006	Entire Facility	ARE4 SLimeSilo2 - Lime Silo - Water Treatment Plant
GRP006	Entire Facility	EQT1 M-1 - Gasoline Storage Tank
GRP006	Entire Facility	EQT2 M-2 - Diesel Storage Tank
GRP006	Entire Facility	EQT3 M-3 - Used Oil Storage Tank
GRP006	Entire Facility	EQT4 M-4 - Portable Diesel Fired Equipment - Maintenance
GRP006	Entire Facility	EQT5 P-#1FSA - #1 FSA Tank
GRP006	Entire Facility	EQT6 P-A&F1 - North A&F Fume Scrubber
GRP006	Entire Facility	EQT7 P-A&F10 - Clarified Acid Tank
GRP006	Entire Facility	EQT8 P-A&F11 - N Flash Cooler Barometric Condenser Seal Tank
GRP006	Entire Facility	EQT9 P-A&F12 - S Flash Cooler Barometric Condenser Seal Tank
GRP006	Entire Facility	EQT10 P-A&F13 - North Vacuum Scrubber Seal Tank No. 1
GRP006	Entire Facility	EQT11 P-A&F14 - North Vacuum Scrubber Seal Tank No. 2
GRP006	Entire Facility	EQT12 P-A&F16 - North Gypsum Slurry Tank
GRP006	Entire Facility	EQT13 P-A&F17 - South Gypsum Slurry Tank
GRP006	Entire Facility	EQT14 P-A&F18 - Bailout Tank
GRP006	Entire Facility	EQT15 P-A&F19 - North Primary Vacuum Pump
GRP006	Entire Facility	EQT16 P-A&F2 - South A&F Fume Scrubber
GRP006	Entire Facility	EQT17 P-A&F20 - North Secondary Vacuum Pump
GRP006	Entire Facility	EQT18 P-A&F21 - South Primary Vacuum Pump
GRP006	Entire Facility	EQT19 P-A&F22 - South Secondary Vacuum Pump
GRP006	Entire Facility	EQT20 P-A&F3 - North Filtrate Seal Tank
GRP006	Entire Facility	EQT21 P-A&F4 - South Filtrate Seal Tank
GRP006	Entire Facility	EQT22 P-A&F5 - 30% Acid Splitter Box

INVENTORIES

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant
 Activity Number: PER19960001
 Permit Number: 2560-00004-V0
 Air - Title V Regular Permit Initial

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP006	Entire Facility	EQT23 P-A&F6 - North 30% Tank
GRP006	Entire Facility	EQT24 P-A&F7 - South 30% Tank
GRP006	Entire Facility	EQT25 P-A&F8 - Filtrate Sump
GRP006	Entire Facility	EQT26 P-A&F9 - 30% Clarifier
GRP006	Entire Facility	EQT27 P-A-BLT - Barge Loading Tank A
GRP006	Entire Facility	EQT28 P-ATank - A Phosphoric Acid Storage Tank
GRP006	Entire Facility	EQT29 P-Areactor - A Reactor FSA Storage Tank
GRP006	Entire Facility	EQT30 P-B-BLT - Barge Loading Tank B
GRP006	Entire Facility	EQT31 P-BLSplit - Barge Loading Tank Splitter Box
GRP006	Entire Facility	EQT32 P-BTank - B Phosphoric Acid Storage Tank
GRP006	Entire Facility	EQT33 P-Breactor - B Reactor FSA Storage Tank
GRP006	Entire Facility	EQT34 P-C-Aging - C-Aging Tank FSA Storage Tank
GRP006	Entire Facility	EQT35 P-CTank - C Phosphoric Acid Storage Tank
GRP006	Entire Facility	EQT36 P-Clarified - Clarified Tank FSA Storage Tank
GRP006	Entire Facility	EQT37 P-DTank - D Phosphoric Acid Storage Tank
GRP006	Entire Facility	EQT38 P-ETank - E Phosphoric Acid Storage Tank
GRP006	Entire Facility	EQT39 P-EVAP1 - Evaporator Hot Well No. 1
GRP006	Entire Facility	EQT40 P-EVAP10 - Swift Towers 4, 5 & 6 S FSA Seal Tank
GRP006	Entire Facility	EQT41 P-EVAP11 - 03 FSA Tank
GRP006	Entire Facility	EQT42 P-EVAP2 - Evaporator Hot Well No. 2
GRP006	Entire Facility	EQT43 P-EVAP3 - Evaporator Hot Well No. 3
GRP006	Entire Facility	EQT44 P-EVAP4 - Evaporator Hot Well No. 4
GRP006	Entire Facility	EQT45 P-EVAP5 - Evaporator Hot Well No. 5
GRP006	Entire Facility	EQT46 P-EVAP6 - Evaporator Hot Well No. 6
GRP006	Entire Facility	EQT47 P-EVAP7 - Evaporator Hot Well No. 7
GRP006	Entire Facility	EQT48 P-EVAP8 - Evaporator Hot Well No. 8
GRP006	Entire Facility	EQT49 P-EVAP9 - Swift Towers 1, 2 & 3 N FSA Seal Tank
GRP006	Entire Facility	EQT50 P-FSplit - F Tank Splitter Box
GRP006	Entire Facility	EQT51 P-FTank - F Phosphoric Acid Storage Tank
GRP006	Entire Facility	EQT52 P-GSplit - G Tank Splitter Box
GRP006	Entire Facility	EQT53 P-Gtank - G HSA Storage Tank
GRP006	Entire Facility	EQT54 P-LTnkCAP1 - Large Tanks Scrubber 1
GRP006	Entire Facility	EQT55 P-LTnkCAP2 - Large Tanks Scrubber 2
GRP006	Entire Facility	EQT56 P-OCPRock - OCP Rock Transfer, Storage and Handling
GRP006	Entire Facility	EQT57 P-S&S1 - G Tank Scrubber
GRP006	Entire Facility	EQT58 P-S&S2 - A&B Tank Splitter Box
GRP006	Entire Facility	EQT59 P-S&S3 - C&D Tank Splitter Box

INVENTORIES

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant
 Activity Number: PER19960001
 Permit Number: 2560-00004-V0
 Air - Title V Regular Permit Initial

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP006	Entire Facility	EQT60 P-S&S4 - E Tank Splitter Box
GRP006	Entire Facility	EQT61 P-S&S5 - Phosphoric Acid & FSA Truck Loading
GRP006	Entire Facility	EQT62 P-S&S6 - Phosphoric Acid & FSA Railcar Loading
GRP006	Entire Facility	EQT63 P-S&S7 - Silicon Tetrafluoride Truck Loading
GRP006	Entire Facility	EQT64 P-STnkCAP1 - Small Tanks Scrubber 1
GRP006	Entire Facility	EQT65 P-STnkCAP2 - Small Tanks Scrubber 2
GRP006	Entire Facility	EQT66 PPortEquip - Portable Diesel Fired Equipment - Phos Acid
GRP006	Entire Facility	EQT67 S-ATrain1 - A Train Single Absorption H2SO4 Unit (Tail Gas)
GRP006	Entire Facility	EQT68 S-ATrain2 - A Train Startup Burner
GRP006	Entire Facility	EQT69 S-AcidA - Sulfuric Acid Storage Tank A
GRP006	Entire Facility	EQT70 S-AcidB - Sulfuric Acid Storage Tank B
GRP006	Entire Facility	EQT71 S-AcidC - Sulfuric Acid Storage Tank C
GRP006	Entire Facility	EQT72 S-Boiler1 - No. 1 Packaged Steam Boiler
GRP006	Entire Facility	EQT73 S-Boiler2 - No. 2 Packaged Steam Boiler
GRP006	Entire Facility	EQT74 S-DTrain1 - D Train Double Absorption H2SO4 Unit (Tail Gas)
GRP006	Entire Facility	EQT75 S-DTrain2 - D Train Startup Burner
GRP006	Entire Facility	EQT76 S-ETrain1 - E Train Double Absorption H2SO4 Unit (Tail Gas)
GRP006	Entire Facility	EQT77 S-ETrain2 - E Train Startup Burner
GRP006	Entire Facility	EQT78 S-Railcar - Sulfur Railcar Unloading
GRP006	Entire Facility	EQT79 S-Rock - Rock Unloading, Handling, Storage and Transfer
GRP006	Entire Facility	EQT80 S-SATruck - Sulfuric Acid Truck Loading Area
GRP006	Entire Facility	EQT81 S-SulfPit - Sulfur Unloading Pit
GRP006	Entire Facility	EQT82 S-SulfurA - Sulfur Storage Tank A
GRP006	Entire Facility	EQT83 S-SulfurB - Sulfur Storage Tank B
GRP006	Entire Facility	EQT84 S-SurgeTnk - Sulfur Surge Tank
GRP006	Entire Facility	EQT85 S-Truck - Sulfur Tank Truck Unloading
GRP006	Entire Facility	EQT86 SDEngine1 - Diesel Fired Air Compressor
GRP006	Entire Facility	EQT87 SDEngine2 - Diesel Fired Emergency Generator
GRP006	Entire Facility	EQT88 SDEngine3 - Diesel Pump on Stack - Seepage Pump
GRP006	Entire Facility	EQT89 SDEngine4 - Diesel Fire Water Pump
GRP006	Entire Facility	EQT90 SDEngine5 - Rental Hydroblaster - Diesel
GRP006	Entire Facility	EQT91 SLimeSilo1 - Lime Silo - Utilities
GRP006	Entire Facility	FUG1 P-A&F15 - Plantwide Fugitive Emissions
GRP006	Entire Facility	FUG2 S-ATrain3 - A Train Fugitive Emissions
GRP006	Entire Facility	FUG3 S-DTrain3 - D Train Fugitive Emissions
GRP006	Entire Facility	FUG4 S-DockFug - Dock Fugitive Emissions
GRP006	Entire Facility	FUG5 S-ETrain3 - E Train Fugitive Emissions

INVENTORIES

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant
 Activity Number: PER19960001
 Permit Number: 2560-00004-V0
 Air - Title V Regular Permit Initial

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP006	Entire Facility	GRP4 P-LTnkCAP - Large Tanks CAP
GRP006	Entire Facility	GRP5 P-STnkCAP - Small Tanks CAP
GRP007	North Phosphoric Acid Train	EQT6 P-A&F1 - North A&F Fume Scrubber
GRP007	North Phosphoric Acid Train	EQT15 P-A&F19 - North Primary Vacuum Pump
GRP007	North Phosphoric Acid Train	EQT17 P-A&F20 - North Secondary Vacuum Pump
GRP007	North Phosphoric Acid Train	EQT39 P-EVAP1 - Evaporator Hot Well No. 1
GRP007	North Phosphoric Acid Train	EQT42 P-EVAP2 - Evaporator Hot Well No. 2
GRP007	North Phosphoric Acid Train	EQT43 P-EVAP3 - Evaporator Hot Well No. 3
GRP007	North Phosphoric Acid Train	EQT44 P-EVAP4 - Evaporator Hot Well No. 4
GRP007	North Phosphoric Acid Train	EQT16 P-A&F2 - South A&F Fume Scrubber
GRP008	South Phosphoric Acid Train	EQT18 P-A&F21 - South Primary Vacuum Pump
GRP008	South Phosphoric Acid Train	EQT19 P-A&F22 - South Secondary Vacuum Pump
GRP008	South Phosphoric Acid Train	EQT45 P-EVAP5 - Evaporator Hot Well No. 5
GRP008	South Phosphoric Acid Train	EQT46 P-EVAP6 - Evaporator Hot Well No. 6
GRP008	South Phosphoric Acid Train	EQT47 P-EVAP7 - Evaporator Hot Well No. 7
GRP008	South Phosphoric Acid Train	EQT48 P-EVAP8 - Evaporator Hot Well No. 8

Relationships:

Subject Item	Relationship	Subject Item
EQT54 P-LTnkCAP1 - Large Tanks Scrubber 1	Controls emissions from	EQT28 P-ATank - A Phosphoric Acid Storage Tank
EQT54 P-LTnkCAP1 - Large Tanks Scrubber 1	Controls emissions from	EQT32 P-BTank - B Phosphoric Acid Storage Tank
EQT54 P-LTnkCAP1 - Large Tanks Scrubber 1	Controls emissions from	EQT35 P-CTank - C Phosphoric Acid Storage Tank
EQT54 P-LTnkCAP1 - Large Tanks Scrubber 1	Controls emissions from	EQT37 P-DTank - D Phosphoric Acid Storage Tank
EQT54 P-LTnkCAP1 - Large Tanks Scrubber 1	Controls emissions from	EQT50 P-FSplit - F Tank Splitter Box
EQT55 P-LTnkCAP2 - Large Tanks Scrubber 2	Controls emissions from	EQT51 P-FTank - F Phosphoric Acid Storage Tank
EQT55 P-LTnkCAP2 - Large Tanks Scrubber 2	Controls emissions from	EQT28 P-ATank - A Phosphoric Acid Storage Tank
EQT55 P-LTnkCAP2 - Large Tanks Scrubber 2	Controls emissions from	EQT32 P-BTank - B Phosphoric Acid Storage Tank
EQT55 P-LTnkCAP2 - Large Tanks Scrubber 2	Controls emissions from	EQT35 P-CTank - C Phosphoric Acid Storage Tank
EQT55 P-LTnkCAP2 - Large Tanks Scrubber 2	Controls emissions from	EQT37 P-DTank - D Phosphoric Acid Storage Tank
EQT55 P-LTnkCAP2 - Large Tanks Scrubber 2	Controls emissions from	EQT38 P-ETank - E Phosphoric Acid Storage Tank
EQT55 P-LTnkCAP2 - Large Tanks Scrubber 2	Controls emissions from	EQT50 P-FSplit - F Tank Splitter Box
EQT55 P-LTnkCAP2 - Large Tanks Scrubber 2	Controls emissions from	EQT51 P-FTank - F Phosphoric Acid Storage Tank
EQT57 P-S&S1 - G Tank Scrubber	Controls emissions from	EQT52 P-GSplit - G Tank Splitter Box
EQT57 P-S&S1 - G Tank Scrubber	Controls emissions from	EQT53 P-Glank - G HSA Storage Tank
EQT64 P-STnkCAP1 - Small Tanks Scrubber 1	Controls emissions from	EQT5 P-#1FSA - #1 FSA Tank
EQT64 P-STnkCAP1 - Small Tanks Scrubber 1	Controls emissions from	EQT27 P-A-BLT - Barge Loading Tank A
EQT64 P-STnkCAP1 - Small Tanks Scrubber 1	Controls emissions from	EQT29 P-Areactor - A Reactor FSA Storage Tank

INVENTORIES

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant
 Activity Number: PER19960001
 Permit Number: 2560-00004-V0
 Air - Title V Regular Permit Initial

Relationships:

Subject Item	Relationship	Subject Item
EQT64 P-STnkCAP1 - Small Tanks Scrubber 1	Controls emissions from	EQT30 P-B-BLT - Barge Loading Tank B
EQT64 P-STnkCAP1 - Small Tanks Scrubber 1	Controls emissions from	EQT31 P-BLSplit - Barge Loading Tank Splitter Box
EQT64 P-STnkCAP1 - Small Tanks Scrubber 1	Controls emissions from	EQT36 P-Clarified - Clarified Tank FSA Storage Tank
EQT64 P-STnkCAP1 - Small Tanks Scrubber 1	Controls emissions from	EQT34 P-C-Aging - C-Aging Tank FSA Storage Tank
EQT65 P-STnkCAP2 - Small Tanks Scrubber 2	Controls emissions from	EQT5 P-#1FSA - #1 FSA Tank
EQT65 P-STnkCAP2 - Small Tanks Scrubber 2	Controls emissions from	EQT27 P-A-BLT - Barge Loading Tank A
EQT65 P-STnkCAP2 - Small Tanks Scrubber 2	Controls emissions from	EQT29 P-Areactor - A Reactor FSA Storage Tank
EQT65 P-STnkCAP2 - Small Tanks Scrubber 2	Controls emissions from	EQT30 P-B-BLT - Barge Loading Tank B
EQT65 P-STnkCAP2 - Small Tanks Scrubber 2	Controls emissions from	EQT31 P-BLSplit - Barge Loading Tank Splitter Box
EQT65 P-STnkCAP2 - Small Tanks Scrubber 2	Controls emissions from	EQT34 P-C-Aging - C-Aging Tank FSA Storage Tank
EQT65 P-STnkCAP2 - Small Tanks Scrubber 2	Controls emissions from	EQT36 P-Clarified - Clarified Tank FSA Storage Tank

Stack Information:

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
ARE004 SlimeSilo2 - Lime Silo - Water Treatment Plant			2.66		33	
EQT005 P-#1FSA - #1 FSA Tank			.3		32	130
EQT006 P-A&F1 - North A&F Fume Scrubber		25000	5		110	90
EQT007 P-A&F10 - Clarified Acid Tank					20	140
EQT008 P-A&F11 - N Flash Cooler Barometric Condenser Seal Tank					8.5	130
EQT009 P-A&F12 - S Flash Cooler Barometric Condenser Seal Tank					8.5	130
EQT010 P-A&F13 - North Vacuum Scrubber Seal Tank No. 1					4	100
EQT011 P-A&F14 - North Vacuum Scrubber Seal Tank No. 2					4	100
EQT012 P-A&F16 - North Gypsum Slurry Tank					12	80
EQT013 P-A&F17 - South Gypsum Slurry Tank			.3		12	80
EQT014 P-A&F18 - Boilout Tank					26.5	
EQT015 P-A&F19 - North Primary Vacuum Pump			.5		20	
EQT016 P-A&F2 - South A&F Fume Scrubber		25000	5		110	90
EQT017 P-A&F20 - North Secondary Vacuum Pump			.5		20	
EQT018 P-A&F21 - South Primary Vacuum Pump			.5		20	
EQT019 P-A&F22 - South Secondary Vacuum Pump			.5		20	
EQT020 P-A&F3 - North Filtrate Seal Tank					5	
EQT021 P-A&F4 - South Filtrate Seal Tank					5	
EQT022 P-A&F5 - 30% Acid Splitter Box					43	140
EQT023 P-A&F6 - North 30% Tank					39	140
EQT024 P-A&F7 - South 30% Tank					39	140
EQT025 P-A&F8 - Filtrate Sump					7	90
EQT026 P-A&F9 - 30% Clarifier					24	140
EQT027 P-A-BLT - Barge Loading Tank A			.3		32	175
EQT028 P-A Tank - A Phosphoric Acid Storage Tank			.3		32	175
EQT029 P-Areactor - A Reactor FSA Storage Tank			.3		28	130

INVENTORIES

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant
 Activity Number: PER19960001
 Permit Number: 2560-00004-V0
 Air - Title V Regular Permit Initial

Stack Information:

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
EQ1030			.3		32	175
EQ1031			.3		36	175
EQ1032			.3		32	175
EQ1033			.3		28	130
EQ1034			.3		28	130
EQ1035			.3		32	175
EQ1036			.3		25	130
EQ1037			.3		32	175
EQ1038			.3		32	175
EQ1039					7	110
EQ1040					10	130
EQ1041			.3		16	130
EQ1042					7	110
EQ1043					7	110
EQ1044					7	110
EQ1045					7	110
EQ1046					7	110
EQ1047					7	110
EQ1048					7	110
EQ1049					10	130
EQ1050			.3		36	140
EQ1051					32	175
EQ1052					36	175
EQ1053					32	175
EQ1054	14	323	.7		120	90
EQ1055	14	323	.7		120	90
EQ1057	14	660	1		19	90
EQ1058					36	175
EQ1059					36	175
EQ1060					36	140
EQ1064	14	323	.7		120	90
EQ1065	14	323	.7		120	90
EQ1067	117	138631	5		200	190
EQ1068	183	54000	2.5		34	200
EQ1072	72	123000	6		65	750
EQ1073	72	123000	6		65	750
EQ1074	63	107582	6		160	170
EQ1075	180	53000	2.5		30	180
EQ1076	40.6	182098	9.75		164	180
EQ1077	237	70000	2.5		50	180
EQ1078					15	250
EQ1081						270

INVENTORIES

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant
 Activity Number: PER19960001
 Permit Number: 2560-00004-V0
 Air - Title V Regular Permit Initial

Stack Information:

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
EQT082			1.3		42.83	270
EQT083			1.3		41.9	270
EQT084			2.5		24	270
EQT085			1.02		19	250
EQT091			2.66		23	

Fee Information:

Subj Item Id	Multiplier	Units Of Measure	Fee Desc
GRP006	3611	Ton/Day	0530 - Phosphoric Acid Manufacture (Rated Capacity)
	7800	Ton/Day	0540 - Sulphuric Acid Manufacture (Rated Capacity)

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant
 Activity Number: PER19960001
 Permit Number: 2560-00004-V0
 Air - Title V Regular Permit Initial

All phases

Subject Item	PM ₁₀			SO ₂			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 082	0.52	0.62	2.26	0.27	0.33	1.21									
S-SulfurA															
EQT 083	0.52	0.62	2.26	0.27	0.33	1.21									
S-SulfurB															
EQT 084	0.24	0.28	1.03	0.13	0.15	0.55									
S-SurgeTnk															
EQT 085	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001									
S-Truck															
EQT 086	0.66	0.79	2.89	0.62	0.74	2.69	9.30	11.16	40.73	2.00	2.41	8.78	0.75	0.90	3.29
SDEngine1															
EQT 087	0.44	0.53	1.93	0.41	0.49	1.80	6.20	7.44	27.16	1.34	1.60	5.85	0.50	0.60	2.19
SDEngine2															
EQT 088	0.42	0.50	0.15	0.39	0.47	0.14	5.89	7.07	2.12	1.27	1.52	0.46	0.48	0.57	0.17
SDEngine3															
EQT 089	0.33	0.40	0.03	0.31	0.37	0.03	4.65	5.58	0.47	1.00	1.20	0.10	0.38	0.45	0.04
SDEngine4															
EQT 090	0.57	0.69	0.10	0.53	0.64	0.09	8.06	9.67	1.41	1.74	2.08	0.30	0.65	0.78	0.11
SDEngine5															
EQT 091	3.37	4.05	0.04												
S-LimeSilo1															
FUG 002				0.16	0.19	0.69									
S-ATrain3															
FUG 003				0.25	0.31	1.11									
S-DTrain3															
FUG 004	0.58	0.69	0.07	0.12	0.14	0.01									
S-DockFug															
FUG 005				0.38	0.45	1.64									
S-ETrain3															

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Phase Totals:

PM10: 82.72 tons/yr
 SO2: 14104.67 tons/yr
 NOx: 518.39 tons/yr
 CO: 107.62 tons/yr

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant
 Activity Number: PER19960001
 Permit Number: 2560-00004-V0
 Air - Title V Regular Permit Initial

All phases

Subject Item	PM ₁₀			SO ₂			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 004	3.37	4.05	2.20												
S-LineSlic2															
EQT 001													0.09	0.11	0.41
M-1															
EQT 002													0.001	0.002	0.006
M-2															
EQT 003													< 0.001	< 0.001	0.01
M-3															
EQT 004	0.25	0.30	1.09	0.23	0.28	1.01	3.50	4.20	15.31	0.75	0.90	3.30	0.28	0.34	1.24
M-4															
EQT 056	11.81	14.17	51.73												
P-OCPRock															
EQT 066	0.40	0.48	1.76	0.35	0.45	1.64	5.66	6.79	24.78	1.22	1.46	5.34	0.46	0.55	2.00
P-PortEquip															
EQT 067				2250.16	2250.16	9855.70	7.50	10.00	32.85						
S-ATrain1															
EQT 068	0.73	0.88	0.04	0.06	0.07	0.003	26.92	32.31	1.41	8.08	9.69	0.42	0.53	0.64	0.03
S-ATrain2															
EQT 072	0.85	1.17	3.71	0.07	0.09	0.29	31.23	43.08	136.79	9.37	12.92	41.04	0.61	0.85	2.69
S-Boiler1															
EQT 073	0.85	1.17	3.71	0.07	0.09	0.29	31.23	43.08	136.79	9.37	12.92	41.04	0.61	0.85	2.69
S-Boiler2															
EQT 074				333.33	333.33	1460.00	7.50	10.00	32.85						
S-DTrain1															
EQT 075	0.73	0.88	0.04	0.06	0.07	0.003	26.92	32.31	1.41	8.08	9.69	0.42	0.53	0.64	0.03
S-DTrain2															
EQT 076				633.33	633.33	2774.00	14.25	19.00	62.42						
S-DTrain1															
EQT 077	0.73	0.88	0.05	0.06	0.07	0.004	26.92	32.31	1.89	8.08	9.69	0.57	0.53	0.64	0.04
S-DTrain2															
EQT 078	< 0.001	< 0.001	0.001	0.001	0.001	0.001									
S-Railcar															
EQT 079	1.51	1.81	6.60												
S-Rock															
EQT 081	0.24	0.28	1.03	0.13	0.15	0.55									
S-SulfPit															

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant
 Activity Number: PER19960001
 Permit Number: 2560-00004-V0
 Air - Title V Regular Permit Initial

All phases

Subject Item	PM ₁₀			SO ₂			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 082 S-SulfurA	0.52	0.62	2.26	0.27	0.33	1.21									
EQT 083 S-SulfurB	0.52	0.62	2.26	0.27	0.33	1.21									
EQT 084 S-SurgeTrnk	0.24	0.28	1.03	0.13	0.15	0.55									
EQT 085 S-Truck	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001									
EQT 086 SDEngine1	0.66	0.79	2.89	0.62	0.74	2.69	9.30	11.16	40.73	2.00	2.41	8.78	0.75	0.90	3.29
EQT 087 SDEngine2	0.44	0.53	1.93	0.41	0.49	1.80	6.20	7.44	27.16	1.34	1.60	5.85	0.50	0.60	2.19
EQT 088 SDEngine3	0.42	0.50	0.15	0.39	0.47	0.14	5.89	7.07	2.12	1.27	1.52	0.46	0.48	0.57	0.17
EQT 089 SDEngine4	0.33	0.40	0.03	0.31	0.37	0.03	4.65	5.58	0.47	1.00	1.20	0.10	0.38	0.45	0.04
EQT 090 SDEngine5	0.57	0.69	0.10	0.53	0.64	0.09	8.06	9.67	1.41	1.74	2.08	0.30	0.65	0.78	0.11
EQT 091 SLineSilo1	3.37	4.05	0.04												
FUG 002 S-ATrain3				0.16	0.19	0.69									
FUG 003 S-OTrain3				0.25	0.31	1.11									
FUG 004 S-DockFug	0.58	0.69	0.07	0.12	0.14	0.01									
FUG 005 S-ETrain3				0.38	0.45	1.64									

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Phase Totals:

PM10: 82.72 tons/yr
 SO2: 14104.67 tons/yr
 NOx: 518.39 tons/yr
 CO: 107.62 tons/yr

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant

Activity Number: PER19960001

Permit Number: 2560-00004-V0

Air - Title V Regular Permit Initial

All phases

VOC: 14.94 tons/yr

Emission rates Notes:

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant
 Activity Number: PER19960001
 Permit Number: 2560-00004-V0
 Air - Title V Regular Permit Initial

All phases

Subject Item	Chlorine			Hydrofluoric acid			Hydrogen sulfide			Phosphoric acid			Sulfur Trioxide		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 003 S-GypSk				0.32	0.38	1.40									
EQT 006 P-A&F1				0.02	0.02	0.12									
EQT 007 P-A&F10				< 0.001	< 0.001	0.01				0.60	0.72	2.64			
EQT 008 P-A&F11															
EQT 009 P-A&F12															
EQT 010 P-A&F13															
EQT 011 P-A&F14															
EQT 012 P-A&F16															
EQT 013 P-A&F17															
EQT 014 P-A&F18															
EQT 015 P-A&F19															
EQT 016 P-A&F2				0.02	0.02	0.12									
EQT 017 P-A&F20															
EQT 018 P-A&F21															
EQT 019 P-A&F22															
EQT 020 P-A&F3				< 0.001	< 0.001	0.001				0.30	0.36	1.31			
EQT 021 P-A&F4				< 0.001	< 0.001	0.001				0.30	0.36	1.31			
EQT 022 P-A&F5				0.002	0.002	0.007				3.54	4.25	15.50			

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant
 Activity Number: PER19960001
 Permit Number: 2560-00004-V0
 Air - Title V Regular Permit Initial

All phases

Subject Item	Sulfuric acid				Total fluorides			
	Avg lb/hr	Max lb/hr	Tons/Year		Avg lb/hr	Max lb/hr	Tons/Year	
ARE 003 S-GpsSk								
EQT 006 P-A&F1					1.51	1.81	6.59	
EQT 007 P-A&F10	< 0.001	< 0.001	< 0.01		0.022	0.026	0.095	
EQT 008 P-A&F11					< 0.001	< 0.001	< 0.01	
EQT 009 P-A&F12					< 0.001	< 0.001	< 0.01	
EQT 010 P-A&F13					< 0.001	< 0.001	< 0.01	
EQT 011 P-A&F14					< 0.001	< 0.001	< 0.01	
EQT 012 P-A&F15					< 0.001	< 0.001	< 0.01	
EQT 013 P-A&F17					< 0.001	< 0.001	< 0.01	
EQT 014 P-A&F18	< 0.001	< 0.001	< 0.01		< 0.001	< 0.001	< 0.01	
EQT 015 P-A&F19					< 0.001	< 0.001	< 0.01	
EQT 016 P-A&F2					1.51	1.81	6.59	
EQT 017 P-A&F20					< 0.001	< 0.001	< 0.01	
EQT 018 P-A&F21					< 0.001	< 0.001	< 0.01	
EQT 019 P-A&F22					< 0.001	< 0.001	< 0.01	
EQT 020 P-A&F3	< 0.001	< 0.001	< 0.01		0.011	0.013	0.047	
EQT 021 P-A&F4	< 0.001	< 0.001	< 0.01		0.011	0.013	0.047	
EQT 022 P-A&F5	< 0.001	< 0.001	< 0.01		0.128	0.154	0.562	

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant

Activity Number: PER19960001

Permit Number: 2560-00004-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	Chlorine			Hydrofluoric acid			Hydrogen sulfide			Phosphoric acid			Sulfur Trioxide		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 023 P-A&F6				< 0.001	< 0.001	0.001				0.38	0.45	1.65			
EQT 024 P-A&F7				< 0.001	< 0.001	0.001				0.38	0.45	1.65			
EQT 025 P-A&F8										< 0.001	< 0.001	0.001			
EQT 026 P-A&F9				< 0.001	< 0.001	0.001				0.67	0.80	2.91			
EQT 033 P-Bractor				< 0.001	< 0.001	< 0.01									
EQT 039 P-EVAP1															
EQT 040 P-EVAP10				< 0.001	< 0.001	< 0.01									
EQT 041 P-EVAP11				< 0.001	< 0.001	< 0.01									
EQT 042 P-EVAP2															
EQT 043 P-EVAP3															
EQT 044 P-EVAP4															
EQT 045 P-EVAP5															
EQT 046 P-EVAP6															
EQT 047 P-EVAP7															
EQT 048 P-EVAP8															
EQT 049 P-EVAP9				< 0.001	< 0.001	< 0.01									
EQT 054 P-L-TrkCAP1					< 0.001						0.28				
EQT 055 P-L-TrkCAP2					< 0.001						0.28				

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant
 Activity Number: PER19960001
 Permit Number: 2560-00004-V0
 Air - Title V Regular Permit Initial

All phases

Subject Item	Sulfuric acid				Total fluorides				
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 023 P-A&F6	< 0.001	< 0.001	< 0.01	0.014	0.016	0.059			
EQT 024 P-A&F7	< 0.001	< 0.001	< 0.01	0.014	0.016	0.059			
EQT 025 P-A&F8	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01			
EQT 026 P-A&F9	< 0.001	< 0.001	< 0.01	0.024	0.029	0.105			
EQT 033 P-Reactor				< 0.001	< 0.001	< 0.01			
EQT 039 P-EVAP1				< 0.001	< 0.001	< 0.01			
EQT 040 P-EVAP10				< 0.001	< 0.001	< 0.01			
EQT 041 P-EVAP11				< 0.001	< 0.001	< 0.01			
EQT 042 P-EVAP2				< 0.001	< 0.001	< 0.01			
EQT 043 P-EVAP3				< 0.001	< 0.001	< 0.01			
EQT 044 P-EVAP4				< 0.001	< 0.001	< 0.01			
EQT 045 P-EVAP5				< 0.001	< 0.001	< 0.01			
EQT 046 P-EVAP6				< 0.001	< 0.001	< 0.01			
EQT 047 P-EVAP7				< 0.001	< 0.001	< 0.01			
EQT 048 P-EVAP8				< 0.001	< 0.001	< 0.01			
EQT 049 P-EVAP9				< 0.001	< 0.001	< 0.01			
EQT 054 P-LTrkCAP1		< 0.001			0.010				
EQT 055 P-LTrkCAP2		< 0.001			0.010				

EMISSION RATES FOR TAPIHAP & OTHER POLLUTANTS

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant

Activity Number: PER19960001

Permit Number: 2560-00004-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	Chlorine			Hydrofluoric acid			Hydrogen sulfide			Phosphoric acid			Sulfur Trioxide		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 057 P-S&S1				0.001	0.001	0.005				2.46	2.95	10.78			
EQT 058 P-S&S2				0.001	0.001	0.005				2.46	2.95	10.78			
EQT 059 P-S&S3				< 0.001	< 0.001	0.002				0.82	0.98	3.59			
EQT 060 P-S&S4				0.001	0.002	0.006				3.24	3.89	14.19			
EQT 061 P-S&S5				< 0.001	< 0.001	< 0.01				0.48	0.58	0.09			
EQT 062 P-S&S6				< 0.001	< 0.001	< 0.01				0.14	0.17	0.49			
EQT 064 P-STnKCAP1					0.001						1.97				
EQT 065 P-STnKCAP2					0.001						1.97				
EQT 067 S-ATrain1															
EQT 069 S-AcidA															
EQT 070 S-AcidB															
EQT 071 S-AcidC															
EQT 074 S-DTrain1															
EQT 076 S-ETrain1															
EQT 078 S-Railcar							0.16	0.19	0.24						
EQT 080 S-SATruck															
EQT 081 S-SulfurP1							0.20	0.24	0.86						
EQT 082 S-SulfurA							0.24	0.29	1.05						

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant

Activity Number: PER19960001

Permit Number: 2560-00004-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	Sulfuric acid				Total fluorides			
	Avg lb/hr	Max lb/hr	Tons/Year		Avg lb/hr	Max lb/hr	Tons/Year	
EQT 057 P-S&S1	< 0.001	< 0.001	< 0.01		0.096	0.115	0.421	
EQT 058 P-S&S2	< 0.001	< 0.001	< 0.01		0.096	0.115	0.421	
EQT 059 P-S&S3	< 0.001	< 0.001	< 0.01		0.032	0.038	0.140	
EQT 060 P-S&S4	< 0.001	< 0.001	< 0.01		0.117	0.141	0.514	
EQT 061 P-S&S5	< 0.001	< 0.001	< 0.01		0.017	0.021	0.003	
EQT 062 P-S&S6	< 0.001	< 0.001	< 0.01		0.005	0.006	0.018	
EQT 064 P-STnkCAP1		< 0.001				0.077		
EQT 065 P-STnkCAP2		< 0.001				0.077		
EQT 067 S-ATrain1	41.67	41.67	182.50					
EQT 069 S-AcidA	< 0.001	< 0.001	0.001					
EQT 070 S-AcidB	< 0.001	< 0.001	0.001					
EQT 071 S-AcidC	< 0.001	< 0.001	0.001					
EQT 074 S-OTrain1	12.50	12.50	54.75					
EQT 076 S-ETrain1	23.75	23.75	104.03					
EQT 078 S-Railcar								
EQT 080 S-SATruck	< 0.001	< 0.001	< 0.01					
EQT 081 S-SulfurPit								
EQT 082 S-SulfurA								

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant

Activity Number: PER19960001

Permit Number: 2560-00004-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	Chlorine			Hydrofluoric acid			Hydrogen sulfide			Phosphoric acid			Sulfur Trioxide		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 083 S-SulfurB				0.63	0.76	2.76									
EQT 084 S-SurgeTnk				0.06	0.07	0.27									
EQT 085 S-Truck				0.12	0.14	0.29									
FUG 001 P-A&F15	< 0.001	< 0.001	< 0.01												
FUG 002 S-ATrain3													0.37	0.44	1.61
FUG 003 S-DTrain3													0.59	0.71	2.60
FUG 004 S-DockFug	0.001	0.002	0.003	7.28	8.74	0.92	3.10	3.72	7.25						
FUG 005 S-ETrain3													0.88	1.05	3.84
GRP 004 P-LTnkCAP	< 0.001		< 0.01				0.23		1.04						
GRP 005 P-STnkCAP	0.001		0.003				1.65		7.20						

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant
 Activity Number: PER19960001
 Permit Number: 2560-00004-V0
 Air - Title V Regular Permit Initial

All phases

Subject item	Sulfuric acid			Total fluorides		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 083 S-SulfurB						
EQT 084 S-SurgeTrk						
EQT 085 S-Truck						
FUG 001 P-A&F15						
FUG 002 S-ATrain3						
FUG 003 S-DTrain3						
FUG 004 S-DeckFug	0.002	0.002	0.003	0.12	0.15	0.28
FUG 005 S-ETrain3						
GRP 004 P-LTrkCAP	< 0.001		< 0.001	0.008		0.010
GRP 005 P-STrkCAP	< 0.001		< 0.001	0.064		0.281

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Parameter Totals:

Chlorine: <0.01 tons/yr
 Hydrofluoric acid: 1.68 tons/yr
 Hydrogen sulfide: 6.39 tons/yr
 Phosphoric acid: 82.38 tons/yr
 Sulfur Trioxide: 8.05 tons/yr
 Sulfuric acid: 341.29 tons/yr
 Total fluorides: 16.24 tons/yr

Emission Rates Notes:

SPECIFIC REQUIREMENTS

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant
Activity Number: PER19960001
Permit Number: 2560-00004-V0
Air - Title V Regular Permit Initial

ARE003 S-GypStk - Gypsum Stack Ponds

- 1 Conduct a performance/emissions test: Due within 180 days after issuance of the Initial Part 70 Operating Permit. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Test methods and procedures shall be in accordance with Radial Plume Mapping methodology along with Open-Path Tunable Diode Laser Absorption Spectroscopy to determine the flux rate of hydrogen fluoride from the gypsum stack ponds. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]
- 2 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]
- 3 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]
- 4 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]
- 5 Rn-222 \leq 20.0 pCi /m²-s. After a phosphogypsum stack has become an inactive stack, the owner or operator shall assure that the stack does not emit more than 20 pCi/m²-s of radon-222 into the air. [40 CFR 61.202]
Which Months: Phases: Statistical Basis: Approved basis
- 6 The owner or operator shall notify EPA and the Office of Environmental Assessment, Air Quality Assessment Division, Engineering Support Section at least 30 days prior to each emissions test so that EPA and the department may, at its option, observe the test. [40 CFR 61.203(a)]
- 7 Within sixty days following the date on which a stack becomes an inactive stack, the owner or operator shall test the stack for radon-222 flux in accordance with the procedures described in 40 CFR part 61, appendix B, Method 115. For the purposes of this requirement, the stack (which currently consists of both active and inactive portions) will become inactive when the stack no longer requires water management as defined in the water permit No. LA0004847. [40 CFR 61.203(a)]
- 8 Submit report within ninety days after testing is required. The owner or operator shall provide EPA and the Office of Environmental Assessment, Air Quality Assessment Division, Engineering Support Section a report detailing the actions taken and the results of the radon-222 flux testing. Each report shall also include the information required in 40 CFR 61.203(b)(1)(i) through(v) and signed and dated per 40 CFR 61.203(b)(2). [40 CFR 61.203(b)(1)]

ARE004 SLimeSilo2 - Lime Silo - Water Treatment Plant

- 9 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]
- 10 Total suspended particulate \leq 25.54 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]
Which Months: All Year Statistical Basis: None specified
- 11 Particulate matter (10 microns or less) \geq 90 % removal efficiency. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: None specified
- 12 Filter vents: Visible emissions monitored by visual inspection/determination daily. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: None specified
- 13 Filter vents: Visible emissions recordkeeping by electronic or hard copy daily. Keep records of visual checks on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. [LAC 33:III.501.C.6]
- 14 Filter elements (bags): Equipment/operational data monitored by technically sound method once every six months or whenever visual checks indicate maintenance may be necessary. Change elements as necessary. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: None specified
- 15 Filter elements (bags): Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of inspection. Keep records of maintenance inspections on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. [LAC 33:III.501.C.6]

SPECIFIC REQUIREMENTS

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant

Activity Number: PER19960001

Permit Number: 2560-00004-V0

Air - Title V Regular Permit Initial

EQT001 M-1 - Gasoline Storage Tank

- 16 Equip with a submerged fill pipe. [LAC 33:III.2103.A]
- 17 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- 18 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]

EQT004 M-4 - Portable Diesel Fired Equipment - Maintenance

- 19 Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: Six-minute average
- 20 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

EQT006 P-A&F1 - North A&F Fume Scrubber

- 21 Conduct a performance test to determine total fluoride emissions. Conduct the performance test according to the procedures in 40 CFR 60 Subpart A and 40 CFR 60.204(b)(2). [LAC 33:III.2305.E]
- 22 Flow rate recordkeeping by electronic or hard copy once every shift during operation. [LAC 33:III.501.C.6]
- 23 Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]
- 24 Flow rate \geq 600.0 gallons/min. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: None specified
- 25 Flow rate monitored by flow rate monitoring device once every shift during operation. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: None specified
- 26 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

EQT007 P-A&F10 - Clarified Acid Tank

- 27 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

EQT008 P-A&F11 - N Flash Cooler Barometric Condenser Seal Tank

- 28 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

EQT009 P-A&F12 - S Flash Cooler Barometric Condenser Seal Tank

- 29 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

SPECIFIC REQUIREMENTS

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant

Activity Number: PER19960001

Permit Number: 2560-00004-V0

Air - Title V Regular Permit Initial

EQT010 **P-A&F13 - North Vacuum Scrubber Seal Tank No. 1**

30 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

EQT011 **P-A&F14 - North Vacuum Scrubber Seal Tank No. 2**

31 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

EQT012 **P-A&F16 - North Gypsum Slurry Tank**

32 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

EQT013 **P-A&F17 - South Gypsum Slurry Tank**

33 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

EQT014 **P-A&F18 - Boilout Tank**

34 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

EQT015 **P-A&F19 - North Primary Vacuum Pump**

35 Conduct a performance test to determine total fluoride emissions. Conduct the performance test according to the procedures in 40 CFR 60 Subpart A and 40 CFR 60.204(b)(2). [LAC 33:III.2305.E]

36 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

EQT016 **P-A&F2 - South A&F Fume Scrubber**

37 Conduct a performance test to determine total fluoride emissions. Conduct the performance test according to the procedures in 40 CFR 60 Subpart A and 40 CFR 60.204(b)(2). [LAC 33:III.2305.E]

38 Flow rate recordkeeping by electronic or hard copy once every shift during operation. [LAC 33:III.501.C.6]

39 Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]

40 Flow rate \geq 600.0 gallons/min. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

41 Flow rate monitored by flow rate monitoring device once every shift during operation. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

42 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

SPECIFIC REQUIREMENTS

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant

Activity Number: PER19960001

Permit Number: 2560-00004-V0

Air - Title V Regular Permit Initial

EQT017 P-A&F20 - North Secondary Vacuum Pump

- 43 Conduct a performance test to determine total fluoride emissions. Conduct the performance test according to the procedures in 40 CFR 60 Subpart A and 40 CFR 60.204(b)(2). [LAC 33:III.2305.E]
- 44 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

EQT018 P-A&F21 - South Primary Vacuum Pump

- 45 Conduct a performance test to determine total fluoride emissions. Conduct the performance test according to the procedures in 40 CFR 60 Subpart A and 40 CFR 60.204(b)(2). [LAC 33:III.2305.E]
- 46 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

EQT019 P-A&F22 - South Secondary Vacuum Pump

- 47 Conduct a performance test to determine total fluoride emissions. Conduct the performance test according to the procedures in 40 CFR 60 Subpart A and 40 CFR 60.204(b)(2). [LAC 33:III.2305.E]
- 48 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

EQT020 P-A&F3 - North Filtrate Seal Tank

- 49 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

EQT021 P-A&F4 - South Filtrate Seal Tank

- 50 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

EQT022 P-A&F5 - 30% Acid Splitter Box

- 51 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

EQT023 P-A&F6 - North 30% Tank

- 52 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

EQT024 P-A&F7 - South 30% Tank

- 53 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

SPECIFIC REQUIREMENTS

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant

Activity Number: PER19960001

Permit Number: 2560-00004-V0

Air - Title V Regular Permit Initial

EQT025 **P-A&F8 - Filtrate Sump**

54 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TED). [LAC 33:III.5107.A.2]

EQT026 **P-A&F9 - 30% Clarifier**

55 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TED). [LAC 33:III.5107.A.2]

EQT033 **P-Breactor - B Reactor FSA Storage Tank**

56 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TED). [LAC 33:III.5107.A.2]

EQT039 **P-EVAP1 - Evaporator Hot Well No. 1**

57 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TED). [LAC 33:III.5107.A.2]

EQT040 **P-EVAP10 - Swift Towers 4, 5 & 6 S FSA Seal Tank**

58 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TED). [LAC 33:III.5107.A.2]

EQT041 **P-EVAP11 - 03 FSA Tank**

59 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TED). [LAC 33:III.5107.A.2]

EQT042 **P-EVAP2 - Evaporator Hot Well No. 2**

60 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TED). [LAC 33:III.5107.A.2]

EQT043 **P-EVAP3 - Evaporator Hot Well No. 3**

61 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TED). [LAC 33:III.5107.A.2]

EQT044 **P-EVAP4 - Evaporator Hot Well No. 4**

62 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TED). [LAC 33:III.5107.A.2]

EQT045 **P-EVAP5 - Evaporator Hot Well No. 5**

SPECIFIC REQUIREMENTS

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant

Activity Number: PER19960001

Permit Number: 2560-00004-V0

Air - Title V Regular Permit Initial

EQT045 **P-EVAP5 - Evaporator Hot Well No. 5**

63 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

EQT046 **P-EVAP6 - Evaporator Hot Well No. 6**

64 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

EQT047 **P-EVAP7 - Evaporator Hot Well No. 7**

65 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

EQT048 **P-EVAP8 - Evaporator Hot Well No. 8**

66 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

EQT049 **P-EVAP9 - Swift Towers 1, 2 & 3 N FSA Seal Tank**

67 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

EQT054 **P-LTnkCAP1 - Large Tanks Scrubber 1**

68 Pressure monitored by pressure instrument once every shift during operation. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

69 Pressure recordkeeping by electronic or hard copy once every shift during operation. [LAC 33:III.501.C.6]

70 Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]

71 Pressure \geq 50.0 psig. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

72 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

EQT055 **P-LTnkCAP2 - Large Tanks Scrubber 2**

73 Pressure monitored by pressure instrument once every shift during operation. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

74 Pressure recordkeeping by electronic or hard copy once every shift during operation. [LAC 33:III.501.C.6]

75 Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]

SPECIFIC REQUIREMENTS

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant

Activity Number: PER19960001

Permit Number: 2560-00004-V0

Air - Title V Regular Permit Initial

EQT055 P-LTnkCAP2 - Large Tanks Scrubber 2

76 Pressure >= 50.0 psig. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

77 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

EQT056 P-OCPRock - OCP Rock Transfer, Storage and Handling

78 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]

79 Total suspended particulate <= 69.16 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]
Which Months: All Year Statistical Basis: None specified

EQT057 P-S&S1 - G Tank Scrubber

80 Pressure monitored by pressure instrument once every shift during operation. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

81 Pressure recordkeeping by electronic or hard copy once every shift during operation. [LAC 33:III.501.C.6]

82 Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]

83 Pressure >= 50.0 psig. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

84 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

EQT058 P-S&S2 - A&B Tank Splitter Box

85 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

EQT059 P-S&S3 - C&D Tank Splitter Box

86 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

EQT060 P-S&S4 - E Tank Splitter Box

87 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

EQT061 P-S&S5 - Phosphoric Acid & FSA Truck Loading

88 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

SPECIFIC REQUIREMENTS

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant

Activity Number: PER19960001

Permit Number: 2560-00004-V0

Air - Title V Regular Permit Initial

EQT062 P-S&S6 - Phosphoric Acid & FSA Railcar Loading

89 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TED1). [LAC 33:III.5107.A.2]

EQT064 P-STnkCAP1 - Small Tanks Scrubber 1

90 Pressure monitored by pressure instrument once every shift during operation. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

91 Pressure recordkeeping by electronic or hard copy once every shift during operation. [LAC 33:III.501.C.6]

92 Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]

93 Pressure \geq 50.0 psig. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

94 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TED1). [LAC 33:III.5107.A.2]

EQT065 P-STnkCAP2 - Small Tanks Scrubber 2

95 Pressure monitored by pressure instrument once every shift during operation. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

96 Pressure recordkeeping by electronic or hard copy once every shift during operation. [LAC 33:III.501.C.6]

97 Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]

98 Pressure \geq 50.0 psig. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

99 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TED1). [LAC 33:III.5107.A.2]

EQT066 PPortEquip - Portable Diesel Fired Equipment - Phos Acid

100 Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average

101 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

EQT067 S-ATrain1 - A Train Single Absorption H2SO4 Unit (Tail Gas)

102 Sulfur dioxide \leq 2000 ppmv. [LAC 33:III.1503.A]

Which Months: All Year Statistical Basis: Three-hour average

103 Acid mist \leq 0.5 lb/ton of 100% H2SO4. [LAC 33:III.1503.A]

Which Months: All Year Statistical Basis: Three-hour average

SPECIFIC REQUIREMENTS

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant

Activity Number: PER19960001

Permit Number: 2560-00004-V0

Air - Title V Regular Permit Initial

EQT067 **S-ATrain1 - A Train Single Absorption H2SO4 Unit (Tail Gas)**

- 104 Determine sulfur dioxide and sulfuric acid mist concentrations in stack gases using the methods in LAC 33:III.1503.D. Table 4. Use these methods for initial compliance determinations and for additional compliance determinations for those facilities not subject to continuous emission monitoring. [LAC 33:III.1503.D.1]
- 105 Sulfur dioxide monitored by continuous emission monitor (CEM) continuously. Ensure that the measurement system is certified according to Performance Specification 2 of 40 CFR 60, Appendix B, and quality assured by the procedures in 40 CFR 60, Appendix F. [LAC 33:III.1511.A]
- Which Months: All Year Statistical Basis: None specified
- 106 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate compliance with the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 107 Submit report: Due annually, by the 31st of March, in accordance with LAC 33:III.918. Report data required to demonstrate compliance with the provisions of LAC 33:III.Chapter 15. [LAC 33:III.1513]
- 108 Submit quarterly reports of three-hour excess emissions and reports of emergency conditions, in accordance with LAC 33:III.Chapter 39. [LAC 33:III.1513]
- 109 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

EQT068 **S-ATrain2 - A Train Startup Burner**

- 110 Opacity \leq 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
- Which Months: All Year Statistical Basis: None specified
- 111 Total suspended particulate \leq 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]
- Which Months: All Year Statistical Basis: None specified
- 112 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

EQT069 **S-AcidA - Sulfuric Acid Storage Tank A**

- 113 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

EQT070 **S-AcidB - Sulfuric Acid Storage Tank B**

- 114 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

EQT071 **S-AcidC - Sulfuric Acid Storage Tank C**

- 115 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

SPECIFIC REQUIREMENTS

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant

Activity Number: PER19960001

Permit Number: 2560-00004-V0

Air - Title V Regular Permit Initial

EQ072 S-Boiler1 - No. 1 Packaged Steam Boiler

116 Opacity \leq 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]

Which Months: All Year Statistical Basis: None specified

117 Total suspended particulate \leq 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]

Which Months: All Year Statistical Basis: None specified

118 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

119 Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources, and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. [LAC 33:III.501.C.6]

120 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]

121 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]

EQ073 S-Boiler2 - No. 2 Packaged Steam Boiler

122 Opacity \leq 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]

Which Months: All Year Statistical Basis: None specified

123 Total suspended particulate \leq 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]

Which Months: All Year Statistical Basis: None specified

124 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

125 Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources, and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. [LAC 33:III.501.C.6]

126 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]

SPECIFIC REQUIREMENTS

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant

Activity Number: PER19960001

Permit Number: 2560-00004-V0

Air - Title V Regular Permit Initial

EQT073 **S-Boiler2 - No. 2 Packaged Steam Boiler**

127 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]

EQT074 **S-DTrain1 - D Train Double Absorption H2SO4 Unit (Tail Gas)**

128 Determine sulfur dioxide and sulfuric acid mist concentrations in stack gases using the methods in LAC 33:III.1503.D. Table 4. Use these methods for initial compliance determinations and for additional compliance determinations for those facilities not subject to continuous emission monitoring. [LAC 33:III.1503.D.1]

129 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate compliance with the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

130 Submit report: Due annually, by the 31st of March, in accordance with LAC 33:III.918. Report data required to demonstrate compliance with the provisions of LAC 33:III.Chapter 15. [LAC 33:III.1513]

131 Submit quarterly reports of three-hour excess emissions and reports of emergency conditions, in accordance with LAC 33:III.Chapter 39. [LAC 33:III.1513]

132 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

133 Sulfur dioxide \leq 4 lb/ton (2 kg/metric ton) of acid produced, the production being expressed as 100% H2SO4. Subpart H. [40 CFR 60.82(a), LAC 33:III.1503.A]
Which Months: All Year Statistical Basis: None specified

134 Acid mist \leq 0.15 lb/ton (0.075 kg/metric ton) of acid produced, expressed as H2SO4, the production being expressed as 100% H2SO4. Subpart H. [40 CFR 60.83(a)(1), LAC 33:III.1503.A]
Which Months: All Year Statistical Basis: None specified

135 Opacity \leq 10 percent. Subpart H. [40 CFR 60.83(a)(2)]
Which Months: All Year Statistical Basis: None specified

136 Sulfur dioxide recordkeeping by recorder continuously. Subpart H. [40 CFR 60.84(a)]

137 Sulfur dioxide monitored by CMS continuously. Ensure that the measurement system is certified according to Performance Specification 2 of 40 CFR 60, Appendix B, and quality assured by the procedures in 40 CFR 60, Appendix F. Subpart H. [40 CFR 60.84(a), LAC 33:III.1511.A]
Which Months: All Year Statistical Basis: None specified

138 Record all conversion factors and values under 40 CFR 60.84(b) from which they were computed. Subpart H. [40 CFR 60.84(c)]

139 Use as reference methods and procedures the test methods in 40 CFR 60 Appendix A or other methods and procedures as specified in 40 CFR 60.85, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart H. [40 CFR 60.85(a)]

140 Determine compliance with the SO2, acid mist, and visible emission standards in 40 CFR 60.82 and 60.83 using the test methods and procedures specified in 40 CFR 60.85(b) and (c), as applicable. Subpart H. [40 CFR 60.85(b)]

EQT075 **S-DTrain2 - D Train Startup Burner**

141 Opacity \leq 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]

Which Months: All Year Statistical Basis: None specified

142 Total suspended particulate \leq 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant

Activity Number: PER19960001

Permit Number: 2560-00004-V0

Air - Title V Regular Permit Initial

EQ075 **S-DTrain2 - D Train Startup Burner**

143 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

EQ076 **S-ETrain1 - E Train Double Absorption H2SO4 Unit (Tail Gas)**

- 144 Determine sulfur dioxide and sulfuric acid mist concentrations in stack gases using the methods in LAC 33:III.1503.D. Table 4. Use these methods for initial compliance determinations and for additional compliance determinations for those facilities not subject to continuous emission monitoring. [LAC 33:III.1503.D.1]
- 145 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate compliance with the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 146 Submit report: Due annually, by the 31st of March, in accordance with LAC 33:III.918. Report data required to demonstrate compliance with the provisions of LAC 33:III.Chapter 15. [LAC 33:III.1513]
- 147 Submit quarterly reports of three-hour excess emissions and reports of emergency conditions, in accordance with LAC 33:III.Chapter 39. [LAC 33:III.1513]
- 148 Emit Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TED). [LAC 33:III.5107.A.2]
- 149 Sulfur dioxide \leq 4 lb/ton (2 kg/metric ton) of acid produced, the production being expressed as 100% H₂SO₄. Subpart H. [40 CFR 60.82(a), LAC 33:III.1503.A]
- 150 Acid mist \leq 0.15 lb/ton (0.075 kg/metric ton) of acid produced, expressed as H₂SO₄, the production being expressed as 100% H₂SO₄. Subpart H. [40 CFR 60.83(a)(1), LAC 33:III.1503.A]
- Which Months: All Year Statistical Basis: None specified
- 151 Opacity $<$ 10 percent. Subpart H. [40 CFR 60.83(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- 152 Sulfur dioxide recordkeeping by recorder continuously. Subpart H. [40 CFR 60.84(a)]
- 153 Sulfur dioxide monitored by CMS continuously. Ensure that the measurement system is certified according to Performance Specification 2 of 40 CFR 60, Appendix B, and quality assured by the procedures in 40 CFR 60, Appendix F. Subpart H. [40 CFR 60.84(a), LAC 33:III.1511.A]
- Which Months: All Year Statistical Basis: None specified
- 154 Record all conversion factors and values under 40 CFR 60.84(b) from which they were computed. Subpart H. [40 CFR 60.84(c)]
- 155 Use as reference methods and procedures the test methods in 40 CFR 60 Appendix A or other methods and procedures as specified in 40 CFR 60.85, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart H. [40 CFR 60.85(a)]
- 156 Determine compliance with the SO₂, acid mist, and visible emission standards in 40 CFR 60.82 and 60.83 using the test methods and procedures specified in 40 CFR 60.85(b) and (c), as applicable. Subpart H. [40 CFR 60.85(b)]

EQ077 **S-ETrain2 - E Train Startup Burner**

157 Opacity \leq 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]

Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant

Activity Number: PER19960001

Permit Number: 2560-00004-V0

Air - Title V Regular Permit Initial

EQT077 **S-ETrain2 - E Train Startup Burner**

- 158 Total suspended particulate \leq 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]
Which Months: All Year Statistical Basis: None specified
- 159 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

EQT078 **S-Railcar - Sulfur Railcar Unloading**

- 160 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

EQT079 **S-Rock - Rock Unloading, Handling, Storage and Transfer**

- 161 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]
- 162 Total suspended particulate \leq 70.06 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]
Which Months: All Year Statistical Basis: None specified

EQT080 **S-SATruck - Sulfuric Acid Truck Loading Area**

- 163 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

EQT081 **S-SulfurPit - Sulfur Unloading Pit**

- 164 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

EQT082 **S-SulfurA - Sulfur Storage Tank A**

- 165 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

EQT083 **S-SulfurB - Sulfur Storage Tank B**

- 166 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

EQT084 **S-SurgeTnk - Sulfur Surge Tank**

- 167 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

EQT085 **S-Truck - Sulfur Tank Truck Unloading**

SPECIFIC REQUIREMENTS

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant

Activity Number: PER19960001

Permit Number: 2560-00004-V0

Air - Title V Regular Permit Initial

EQT085 **S-Truck - Sulfur Tank Truck Unloading**

168 **Emits Class III TAP only.** Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

EQT086 **SDEngine1 - Diesel Fired Air Compressor**

169 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average

170 **Equipment/operational data recordkeeping by electronic or hard copy continuously.** Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

EQT087 **SDEngine2 - Diesel Fired Emergency Generator**

171 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average

172 **Equipment/operational data recordkeeping by electronic or hard copy continuously.** Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

EQT088 **SDEngine3 - Diesel Pump on Stack - Seepage Pump**

173 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average

174 **Equipment/operational data recordkeeping by electronic or hard copy continuously.** Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

EQT089 **SDEngine4 - Diesel Fire Water Pump**

175 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average

176 **Equipment/operational data recordkeeping by electronic or hard copy continuously.** Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

EQT090 **SDEngine5 - Rental Hydroblaster - Diesel**

SPECIFIC REQUIREMENTS

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant

Activity Number: PER19960001

Permit Number: 2560-00004-V0

Air - Title V Regular Permit Initial

EQT090 **SDEngine5 - Rental Hydroblaster - Diesel**

177 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average

178 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

EQT091 **SLimeSilo1 - Lime Silo - Utilities**

179 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]

180 Total suspended particulate <= 25.54 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]

Which Months: All Year Statistical Basis: None specified

181 Particulate matter (10 microns or less) >= 90 % removal efficiency. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

182 Filter vents: Visible emissions monitored by visual inspection/determination daily. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

183 Filter vents: Visible emissions recordkeeping by electronic or hard copy daily. Keep records of visual checks on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. [LAC 33:III.501.C.6]

184 Filter elements (bags): Equipment/operational data monitored by technically sound method once every six months or whenever visual checks indicate maintenance may be necessary. Change elements as necessary. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

185 Filter elements (bags): Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of inspection. Keep records of maintenance inspections on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. [LAC 33:III.501.C.6]

FUG001 **P-A&F15 - Plantwide Fugitive Emissions**

186 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

FUG002 **S-ATrain3 - A Train Fugitive Emissions**

187 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

FUG003 **S-DTrain3 - D Train Fugitive Emissions**

188 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

FUG004 **S-DockFug - Dock Fugitive Emissions**

SPECIFIC REQUIREMENTS

AJ ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant

Activity Number: PER19960001

Permit Number: 2560-00004-V0

Air - Title V Regular Permit Initial

FUG004 **S-DockFug - Dock Fugitive Emissions**

189 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

FUG005 **S-ETrain3 - E Train Fugitive Emissions**

190 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

GRP004 **P-LTnkCAP - Large Tanks CAP**

191 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

GRP005 **P-STnkCAP - Small Tanks CAP**

192 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDJ). [LAC 33:III.5107.A.2]

GRP006 **Entire Facility**

- 193 Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1103]
- 194 Outdoor burning of waste material or other combustible material is prohibited. [LAC 33:III.1109.B]
- 195 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1303.B]
- 196 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5. [LAC 33:III.2113.A]
- 197 Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance. [LAC 33:III.219]
- 198 Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited. [LAC 33:III.2901.D]
- 199 If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G. [LAC 33:III.2901.F]
- 200 Maintain best practical housekeeping and maintenance practices at the highest possible standards to control emissions of highly reactive volatile organic compounds (HRVOC), which include 1,3-Butadiene, Butene, cis-2-Butene, trans-2-Butene, Ethylene, Propylene, Toluene, Xylene, m/p-Xylene, o-Xylene. (State Only). [LAC 33:III.501.C.6]
- 201 Maintain, to the extent practicable, a leak-free facility taking such steps as are necessary and reasonable to prevent leaks and to expeditiously repair leaks that occur. Update the written plan presently required by LAC 33:III.2113.A.4 within 30 days of receipt of this permit to incorporate these general duty obligations into the housekeeping procedures. *The plan shall then be considered a means of emission control subject to the required use and maintenance provisions of LAC 33:III.905.* Failure to develop, use, and diligently maintain the plan shall be a violation of this permit. (State Only). [LAC 33:III.501.C.6]

SPECIFIC REQUIREMENTS

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant

Activity Number: PER19960001

Permit Number: 2560-00004-V0

Air - Title V Regular Permit Initial

GRP006 Entire Facility

- 202 Chlorine < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 203 Particulate matter (10 microns or less) <= 82.72 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 204 Sulfur dioxide <= 14104.67 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 205 Hydrofluoric acid <= 1.68 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 206 Hydrogen sulfide <= 6.39 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 207 Phosphoric acid <= 82.38 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 208 Sulfuric acid <= 341.29 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 209 Total fluorides <= 16.24 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 210 Nitrogen oxides <= 518.39 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 211 Carbon monoxide <= 107.62 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 212 VOC, Total <= 14.94 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 213 Sulfur Trioxide <= 8.05 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 214 Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard. [LAC 33:III.5105.A.1]
- 215 Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109. [LAC 33:III.5105.A.2]
- 216 Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard. [LAC 33:III.5105.A.3]
- 217 Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A. [LAC 33:III.5105.A.4]
- 218 Submit Annual Emissions Report (TEDI): Due annually, by the 1st of July, to the Office of Environmental Assessment, Air Quality Assessment Division, in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3. [LAC 33:III.5107.A.2]
- 219 Include a certification statement with initial and subsequent annual emission reports and revisions to any emission report to attest that the information contained in the emission report is true, accurate, and complete, and signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official. The certification statement shall read: "I certify, under penalty of perjury, that the emissions data provided is accurate to the best of my knowledge, information, and belief, and I understand that submitting false or misleading information will expose me to prosecution under state regulations" [LAC 33:III.5107.A.3]

SPECIFIC REQUIREMENTS

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant

Activity Number: PER19960001

Permit Number: 2560-00004-V0

Air - Title V Regular Permit Initial

GRP006 Entire Facility

- 220 Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but no later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere which results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property). [LAC 33:III.5107.B.1]
- 221 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:III.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:III.3923. [LAC 33:III.5107.B.2]
- 222 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services, SPOC, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:III.3931, except as provided in LAC 33:III.5107.B.6. Submit notification in the manner provided in LAC 33:III.3923. [LAC 33:III.5107.B.3]
- 223 Submit written report: Due within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through 3. Submit report to the Office of Environmental Compliance by certified mail. Include the information specified in LAC 33:III.5107.B.4.a.i through viii. [LAC 33:III.5107.B.4]
- 224 Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, in the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge. [LAC 33:III.5107.B.5]
- 225 Achieve compliance with ambient air standards unless it can be demonstrated to the satisfaction of DEQ that compliance with an ambient air standard would be economically infeasible; that emissions could not reasonably be expected to pose a threat to public health or the environment; and that emissions would be controlled to a level that is Maximum Achievable Control Technology. [LAC 33:III.5109.B.3]
- 226 Determine the status of compliance, beyond the property line, with applicable ambient air standards listed in LAC 33:III.5112, Table 51.2. [LAC 33:III.5109.B]
- 227 Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by the department. [LAC 33:III.5109.C]
- 228 Obtain a Louisiana Air Permit in accordance with LAC 33:III.5111.B and C and in accordance with LAC 33:III.1701, before commencement of the construction of any new source. [LAC 33:III.5111.A.1]
- 229 Obtain a permit modification in accordance with LAC 33:III.5111.B and C before commencement of any modification not specified in a compliance plan submitted under LAC 33:III.5109.D, if the modification will result in an increase in emissions of any toxic air pollutant or will create a new point source. [LAC 33:III.5111.A.2.a]
- 230 Do not commence construction or modification of any major source without first obtaining written authorization from DEQ, as specified. [LAC 33:III.5111.A]
- 231 Ensure that all testing done to determine the emission of toxic air pollutants, upon request by the department, is conducted by qualified personnel. [LAC 33:III.5113.B.1]
- 232 Provide necessary sampling and testing facilities, exclusive of instruments and sensing devices, as needed to properly determine the emission of toxic air pollutants, upon request of the department. [LAC 33:III.5113.B.3]
- 233 Provide emission testing facilities as specified in LAC 33:III.5113.B.4.a through e. [LAC 33:III.5113.B.4]
- 234 Analyze samples and determine emissions within 30 days after each emission test has been completed. [LAC 33:III.5113.B.5]
- 235 Submit certified letter: Due to the Office of Environmental Assessment, Air Quality Assessment Division, before the close of business on the 45th day following the completion of the emission test. Report the determinations of the emission test. [LAC 33:III.5113.B.5]

SPECIFIC REQUIREMENTS

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant

Activity Number: PER19960001

Permit Number: 2560-00004-V0

Air - Title V Regular Permit Initial

GRP006 Entire Facility

- 236 Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ. [LAC 33:III.5113.B.6]
- 237 Submit notification: Due to the Office of Environmental Assessment, Air Quality Assessment Division, at least 30 days before the emission test. Submit notification of emission test to allow DEQ the opportunity to have an observer present during the test. [LAC 33:III.5113.B.7]
- 238 Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence. [LAC 33:III.5113.C.1]
- 239 Conduct performance evaluation of the monitoring system when required at any other time requested by DEQ. [LAC 33:III.5113.C.2]
- 240 Submit performance evaluation report: Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 60 days of the monitoring system performance evaluation. [LAC 33:III.5113.C.2]
- 241 Submit notification in writing: Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before a performance evaluation of the monitoring system is to begin. [LAC 33:III.5113.C.2]
- 242 Install a monitoring system on each effluent or on the combined effluent, when monitoring is required and the effluents from a single source, or from two or more sources subject to the same emission standards, are combined before being released to the atmosphere. If two or more sources are not subject to the same emission standards, install a separate monitoring system on each effluent, unless otherwise specified. If the applicable standard is a mass emission standard and the effluent from one source is released to the atmosphere through more than one point, install a monitoring system at each emission point unless DEQ approves the installation of fewer systems. [LAC 33:III.5113.C.3]
- 243 Evaluate the performance of continuous monitoring systems, upon request by DEQ, in accordance with the requirements and procedures contained in the applicable performance specification of 40 CFR Part 60, appendix B. [LAC 33:III.5113.C.5.a]
- 244 Submit report: Due to DEQ within 60 days of the performance evaluation of the CMS, if requested. Furnish DEQ with two or more copies of a written report of the test results within 60 days. [LAC 33:III.5113.C.5.a]
- 245 Install all continuous monitoring systems or monitoring devices to make representative measurements under variable process or operating parameters, if required to install a CMS. [LAC 33:III.5113.C.5.d]
- 246 Collect and reduce all data as specified in LAC 33:III.5113.C.5.e.i and ii, if required to install a CMS. [LAC 33:III.5113.C.5.e]
- 247 Submit plan: Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 90 days after DEQ requests either the initial plan or an updated plan, if required by DEQ to install a continuous monitoring system. Submit for approval a plan describing the affected sources and the methods for ensuring compliance with the continuous monitoring system. [LAC 33:III.5113.C.5]
- 248 Maintain records of monitoring data, monitoring system calibration checks, and the occurrence and duration of any period during which the monitoring system is malfunctioning or inoperative. Maintain these records at the source, or at an alternate location approved by DEQ, for a minimum of three years and make available, upon request, for inspection by DEQ. [LAC 33:III.5113.C.7]
- 249 Activate the preplanned abatement strategy listed in LAC 33:III.5611, Table 5 when the administrative authority declares an Air Pollution Alert. [LAC 33:III.5609.A.1.b]
- 250 Activate the preplanned strategy listed in LAC 33:III.5611, Table 6 when the administrative authority declares an Air Pollution Warning. [LAC 33:III.5609.A.2.b]
- 251 Activate the preplanned abatement strategy listed in LAC 33:III.5611, Table 7 when the administrative authority declares an Air Pollution Emergency. [LAC 33:III.5609.A.3.b]
- 252 Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611, Tables 5, 6, and 7. [LAC 33:III.5609.A]
- 253 Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901. [LAC 33:III.5901.A]
- 254 Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur. [LAC 33:III.5907]

SPECIFIC REQUIREMENTS

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant

Activity Number: PER19960001

Permit Number: 2560-00004-V0

Air - Title V Regular Permit Initial

GRP006 Entire Facility

- 255 Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III. Chapter 59, whichever is later. Include the information listed in LAC 33:III.5911.B, and submit to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division. [LAC 33:III.5911.A]
- 256 Submit amended registration: Due to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division, within 60 days after the information in the submitted registration is no longer accurate. [LAC 33:III.5911.C]
- 257 Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Air Quality Assessment Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D. [LAC 33:III.919.D]
- 258 All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A. [40 CFR 60]
- 259 All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A. [40 CFR 61]
- 260 Submit Title V permit application for renewal: Due 180 calendar days before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
- 261 Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]
- 262 Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [40 CFR 70.6(a)(3)(iii)(B)]
- 263 Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]
- 264 Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B. [40 CFR 82.Subpart F]

GRP007 North Phosphoric Acid Train

- 265 Total fluorides <= 0.10 lb/ton (50.0 grams/metric ton) of equivalent P2O5 feed. [LAC 33:III.2305.D.1]
Which Months: All Year Statistical Basis: None specified
- 266 Mass flow rate monitored by technically sound method continuously. Equip with a recorder and determine the mass flow of phosphorus-bearing feed material to the North Phosphoric Acid Train. Ensure that the monitoring device has an accuracy of +/- 5 percent over its operating range. [LAC 33:III.2305.E]
Which Months: All Year Statistical Basis: None specified
- 267 Maintain a daily record of equivalent P2O5 feed by first determining the total mass rate in Tons/hr of phosphorus bearing feed using a monitoring device for measuring mass flowrate which meets the requirements of 40 CFR 60.203(a) and then by proceeding according to 40 CFR 60.204(b)(3). [LAC 33:III.2305.E]
- 268 Use test methods and procedures identical to those specified in 40 CFR 60.204(b)(1) - (b)(3) for corresponding types of plants or equivalent test methods and procedures approved by DEQ for determining compliance with LAC 33:III.2305.D.1. [LAC 33:III.2305.E]

GRP008 South Phosphoric Acid Train

- 269 Total fluorides <= 0.10 lb/ton (50.0 grams/metric ton) of equivalent P2O5 feed. [LAC 33:III.2305.D.1]
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2532 - Mosaic Fertilizer LLC - Uncle Sam Plant

Activity Number: PER19960001

Permit Number: 2560-00004-V0

Air - Title V Regular Permit Initial

GRP008 South Phosphoric Acid Train

270 Mass flow rate monitored by technically sound method continuously. Equip with a recorder and determine the mass flow of phosphorus-bearing feed material to the North Phosphoric Acid Train. Ensure that the monitoring device has an accuracy of +/- 5 percent over its operating range. [LAC 33:III.2305.E]

Which Months: All Year Statistical Basis: None specified

271 Maintain a daily record of equivalent P2O5 feed by first determining the total mass rate in Tons/hr of phosphorus bearing feed using a monitoring device for measuring mass flowrate which meets the requirements of 40 CFR 60.203(a) and then by proceeding according to 40 CFR 60.204(b)(3). [LAC 33:III.2305.E]

272 Use test methods and procedures identical to those specified in 40 CFR 60.204(b)(1) - (b)(3) for corresponding types of plants or equivalent test methods and procedures approved by DEQ for determining compliance with LAC 33:III.2305.D.1. [LAC 33:III.2305.E]

General Information

AI ID: 2532 Mosaic Fertilizer LLC - Uncle Sam Plant
Activity Number: PER19960001
Permit Number: 2560-00004-V0
Air - Title V Regular Permit Initial

ID	Name	User Group	Start Date
	Mosaic Fertilizer LLC - Uncle Sam Plant	Air Permitting	07-29-2005
LAO4907	ADVF #	Asbestos	01-23-2003
2560-00004	Mosaic Phosphates - Uncle Sam Plant	CDS Number	05-27-1993
2560-0004	Mosaic Fertilizer LLC - Uncle Sam Plant	Emission Inventory	03-03-2004
73-0798197	Federal Tax ID	Federal Tax ID	11-20-1999
LAD059545756	Mosaic Fertilizer LLC	Hazardous Waste Notification	09-02-2005
00356	Agrico Chemical - Uncle Sam Plant	Inactive & Abandoned Sites	08-01-1981
LAD059545756	Freepport Chemical Co	Inactive & Abandoned Sites	08-01-1981
LA0004847	WPC File Number	LPDES Permit #	05-22-2003
WPO452	WPC State Permit Number	LWDPS Permit #	06-25-2003
LA-2206-L01	Radioactive Material License	Radiation License Number	08-27-2000
GD-093-0889	IMC Agrico Co	Solid Waste	01-08-2002
D-093-0889	Site ID #	Solid Waste Facility No.	05-01-2001
16752	IMC Phosphates Co	TEMPO Merge	04-01-2002
19624	IMC Agrico Chemical Co	TEMPO Merge	10-16-2001
87027	IMC Phosphates Co - Uncle Sam Plant	TEMPO Merge	04-01-2002
2560-0004	Mosaic Fertilizer LLC - Uncle Sam Plant	Toxic Emissions Data Inventory #	01-01-1991
70792GRCCHEASTB	TRI #	Toxic Release Inventory	07-14-2004

Physical Location:
 7250 Hwy 44
 Uncle Sam, LA 70792

Mailing Address:
 7250 Hwy 44
 Uncle Sam, LA 70792

Location of Front Gate: 30° 2' 14" 40 hundredths latitude, 90° 49' 39" 60 hundredths longitude, Coordinate Method: GPS-Unspecified, Coordinate Datum: NAD83

Name	Mailing Address	Phone (Type)	Relationship
Russell Olivier	Hwy 44 Uncle Sam, LA 70792	2255622707 (W/P)	Accident Prevention Billing Party for
Russell Olivier	Hwy 44 Uncle Sam, LA 70792	2255622797 (W/F)	Accident Prevention Billing Party for
David Oubre	7250 Hwy 44 Uncle Sam, LA 70792	2255622773 (W/P)	Air Permit Contact For
David Oubre	7250 Hwy 44 Uncle Sam, LA 70792	2255622760 (W/F)	Air Permit Contact For
David Oubre	9959 Hwy 18 St. James, LA 70086	2255623501 (W/P)	Haz. Waste Billing Party for
John Wen	Hwy 44 Uncle Sam, LA 70792	2255623501 ext 228	Radiation Safety Officer for
John Wen	Hwy 44 Uncle Sam, LA 70792	2255622760 (W/F)	Radiation Safety Officer for
John Wen	Hwy 44 Uncle Sam, LA 70792	2255622760 (W/F)	Air Permit Contact For
John Wen	Hwy 44 Uncle Sam, LA 70792	john.wen@mosaiccc	Air Permit Contact For

General Information

AI ID: 2532 Mosaic Fertilizer LLC - Uncle Sam Plant
Activity Number: PER19960001
Permit Number: 2560-00004-V0
Air - Title V Regular Permit Initial

Related People:	Name	Mailing Address	Phone (Type)	Relationship
	John Wen	Hwy 44 Uncle Sam, LA 70792	2255622760 (WF)	Solid Waste Billing Party for
	John Wen	Hwy 44 Uncle Sam, LA 70792	john.wen@mosaiccc	Solid Waste Billing Party for
	John Wen	Hwy 44 Uncle Sam, LA 70792	2253037603 (CP)	Solid Waste Billing Party for
	John Wen	Hwy 44 Uncle Sam, LA 70792	2255623501 ext 228	Solid Waste Billing Party for
	John Wen	Hwy 44 Uncle Sam, LA 70792	2253037603 (CP)	Air Permit Contact For
	John Wen	Hwy 44 Uncle Sam, LA 70792	2255623501 ext 228	Air Permit Contact For
	John Wen	Hwy 44 Uncle Sam, LA 70792	2253037603 (CP)	Radiation Safety Officer for
	John Wen	Hwy 44 Uncle Sam, LA 70792	john.wen@mosaiccc	Radiation Safety Officer for

Related Organizations:	Name	Address	Phone (Type)	Relationship
	Mosaic Fertilizer LLC	7250 Hwy 44 Uncle Sam, LA 70792	2255622773 (WP)	Air Billing Party for
	Mosaic Fertilizer LLC	7250 Hwy 44 Uncle Sam, LA 70792	2255622760 (WF)	Air Billing Party for
	Mosaic Fertilizer LLC	7250 Hwy 44 Uncle Sam, LA 70792	2255622773 (WP)	Operates
	Mosaic Fertilizer LLC	7250 Hwy 44 Uncle Sam, LA 70792	2255622760 (WF)	Operates
	Mosaic Fertilizer LLC	7250 Hwy 44 Uncle Sam, LA 70792	2255622773 (WP)	Owns
	Mosaic Fertilizer LLC	7250 Hwy 44 Uncle Sam, LA 70792	2255622760 (WF)	Owns

SIC Codes: 2874, Phosphatic fertilizers

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@la.gov.